CONTENT: SILKON PRODUCT BROCHURE CERTIFICATE OF INCORPORATION IMPORT AND EXPORT CERTIFICATE ISO 9001:2015 CERTIFICATE PRODUCT APPROVALS PURCHASE ORDER THIRD PARTY TEST REPORT PRODUCT TECHNICAL DATA SHEET



FOR CONTACT: 18001236299, INFO@SILKON.CO.IN





ABOUT US



SILKON is a brand of Silkon Additives, a manufacturing unit of construction chemicals that are used to maintain the strength of old as well as new construction with top most quality and durability. Our highly Specialized technical team takes pride in working with utmost commitment & dedicated towards providing a world class product. We believe in customer centric approach and thus our efforts are constantly aimed at providing quality products.



VISION



Silkon Additives aspires to be a pioneer in construction chemical manufacturing, providing world class products & solutions globally with customer satisfaction being the key goalpost of all our endeavours making it an experiential customer service platform.



SECTOR WE SERVE



Highway Projects, Residential Projects, Commercial Towers, High Rise Buildings Project, Ready Mix Concrete Plants, Hydle Projects, Metro projects,IOCL and other segments of Infrastructure Development in the Country.





We provide Value Added Services. With excellent workmanship & utmost loyalty towards our patrons, we aim at providing high quality service to our clients & associates.

Construction Chemicals :

Manufacturing the entire range of pre & post construction chemicals used at various stages of infrastructure development and serving various sectors.

Quality Management :

Design Mix, Checking all quality aspects of the fresh and hardened concrete properties. Providing instant field solution to the site quality representative in case of value added concrete manufacturing.



RESEARCH & DEVLOPEMENT



The key to our success is our ability to generate innovative products and capability at the forefront of the industries. R&D Is the backbone of all Silkon products. We at Silkon always adhere to continuous development of future products through a constant stream of innovations. Our state-of-the-art manufacturing and testing facilities help us to develop world class quality products for our customer with the most competitive pricing.Innovation, efficiency and efficacy drive our operations at all levels of functioning



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Product Name	Product Description	Usage of Product	Dosages/Covergae/Yield	Pack Size
Silkon Micro Silica	super pozzolan - a finely powdered material, containing amorphous (reactive) silica,	Silkon Micro Silica is a super pozzolan - a finely powdered material, containing amorphous (reactive) silica, when added to wet concrete mix, it results in better quality and durability and it gives higher strength. It complies with ASTM C1240 & IS 15388.	The normal dosage range is between 5 to 10 Kgs/100 kg of cementitious material.	25 Kg Bags
Supermix PC350	High range superplasticising admixture. Complies with IS:9103:1999 and BS 5075 Part 3, it also conforms to ASTM C-494 Type F and Type G depending on the dosage used	Speeds up construction, increases workability and cohesion, aids pumping by reducing line friction and dry packing, low porosity resulting in sustainability improved water penetrartion resistance.	0.5 to 1.5 liter per 100 kg of total cementitious material.	20 Kg, 200 Kg & 250 Kg Drum & Bulk Supply
Supermix PC450	Advanced low viscosity high performance superplasticiser, based on polycarboxylic technology. Supermix PC450 complies with IS:9103-1999(2007). It also complies with ASTM C494 Type G.	Supermix PC450 Is a High performanyce superplasticiser intended for applications where high water reduction and long workability retention are required, and it has been developed for use in: Self-compacting concrete, Pumped concrete, Concrete requiring long workability retention.	0.40 to 2 percent By Weight of total cementitious material.	20 Kg, 200 Kg & 250 Kg Drum & Bulk Supply
Supermix PC550	Advanced low viscosity high performance superplasticiser, based on polycarboxylic technology. Supermix PC550 complies with IS:9103-1999(2007). It also complies with ASTM C494 Type G.	Supermix PC550 Is a High performanvce superplasticiser intended for applications where high water reduction and long workability retention are required, and it has been developed for use in: Self-compacting concrete, Pumped concrete, Concrete requiring long workability retention.	0.40 to 2 percent By Weight of total cementitious material.	20 Kg, 200Kg & 250 Kg Drum & Bulk Supply
Supercast PC50	Advanced low viscosity superplasticiser, based on polycarboxylic technology for concrete precast industries.	High performance precast super plasticiser intended for applications where reduction in cycle time and early strength are required.	0.5 to 3 percent by weight of total cementitious material.	20 Kg, 200Kg & 250 Kg Drum & Bulk Supply



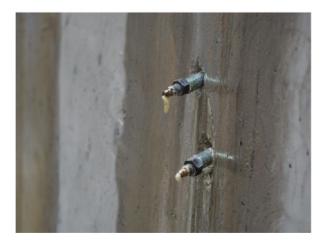


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Product Name	Product Description	Usage of Product	Dosages/Covergae/Yield	Pack Size
Lapkon G3	Non shrink cementitious grout. Complies to ASTM C 1107 Type A.	Static load applications like steel column foundation, pipe rack foundations and equipments with only static load.	12.5 Ltrs / 25 kgs bag @ Flowable Consistency	25 kg Bag
Lapkon G5	Plastic shrinkage compensated, high flow, high strength cementitoous grout. Complies to ASTM C 1107 Type A.	Machine foundation grout with both Static & dynamic loads, bridge bearings, precast constrcution etc.	13.3 Ltrs / 25 kgs bag @ Flowable Consistency	25 kg Bag
Lapkon LV	Low Viscosity epoxy injection grout.	Structural crack repair	Refer Datasheet	1 Liter
Lapkon HSG	High flow, high early & ultimate strength epoxy grout suitable for grouting thickness upto 75 mm. Complies to ASTM C 1181	Machine base grouting of heavy duty compressors, rail plates in ballastless track.	Refer Datasheet	14 Liters









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GROUTS

Product Name	Product Description	Usage of Product	Dosages/Covergae/Yield	Pack Size
Silplast R15	Shrinkage compensated, free flow, structural grade microconcrete for concrete repairs and strengthening.	For repair to damaged reinforced concrete elements particularly where access is restricted and where vibration of the placed material is difficult or impossible. Suitable for various structural strengthening measures such as encasements build-ups etc.	13 litres/25Kg @ W/P 0.16	25 kg Bag
Silplast R20	Shrinkage compensated, free flow, general purpose, microconcrete for concrete repairs.	Elements, particularly where access is restricted and where vibration of the placed material is difficult or impossible. Suitable for various structural strengthening measures such as filling honeycombs and cracks.	Approximately 13.5 litres per 25 kgs bag	25 kg Bag
Silplast RS	Rapid setting cement based waterleak plugging mortar.	For the rapid temporary patching and plugging of concrete segments, concrete and brick tunnel linings, sewage systems, below ground access chambers.	-	1 & 5 Kg
Silplast PM15	Structural grade prepacked cement mortar.	Reinstatement of spalled concrete members like beams, columns, walls etc.	1.3 m2 at 10mm thickness per 25.25 kg bag	Powder 25 Kg, Liquid 0.25 Kg
Silplast PMF100	Single component, fibre reinforced, high strength, shrinkage compensated, polymer modified structural grade repair mortar (M 80 grade).	Silplast PMF100 is suitable for hand and spray application for repairs where high load bearing is required. Typical applications would include, but not be limited to Vertical and overhead repairs to restore 'covercrete'.General concrete and masonry	13.4 litres per 25 kgs bags	25 kg Bag







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Product Name	Product Description	Usage of Product	Dosages/Covergae/Yield	Pack Size
Silfloor FH	Non mettalic, dry shake on floor hardeners.	Ideally suited for all industrial and commercial floors subjected to the heavy abrasion / wear suitable for flooring applications in heavy engineering industry, warehouses & car parking.	Application rate kg/m2 Heavy Duty 7.0 Medium Duty 5.0 Light Duty	25 kg Bag
Silfloor UL6	1.5 mm - 6mm thick self - smoothing epoxy based underlay.	A self smoothing epoxy screed recommended as an underlay prior to application of epoxy/PU based floor toppings.	7.5 m2/ Pack @ 2 mm thickness	15 liters
Silfloor SFC	High build solvent free epoxy resin based floor coating.	Provides a high build, hardwearing, chemical and abrasion resistant floor finish.	4 m2 / ltr @ 250 Microns WFT per coat recommended application two coats	
Silfloor SBC	Epoxy resin based solvented floor sealer with high chemical & abrasion resistance.	The recommended uses are in production assembly areas, dairies, soft drinks production and bottling plants, breweries, kitchens, showrooms, aircraft hangers, dust proof rooms etc. Also used as colored sealer coat for screeds	45 m2 / pack / coat @ 45 microns DFT Recommended in minimum two coats @ 90 Mic. DFT	4.5 Liters
Silfloor SS1 Silfloor SS2 Silfloor SS3 Silfloor SS4	0.5 - 4 mm thick self smoothing seamless epoxy floor toppings.	Ideal for industrial floors where a hardwearing, hygienic, dust free environment is important, Useful for hospital clean rooms, electronic assembly plants, engineering & manufacturing industries.	Refer datasheet	15 Liters

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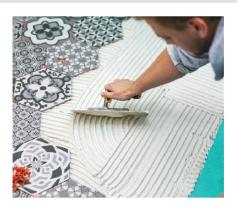
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Product Name	Product Description	Usage of Product	Dosages/Covergae/Yield	Pack Size
Silkon PS-500	Two part polysulphide sealant.	It is particularly recommended for sealing structural expansion joints in most civil engineering structures like building superstructures, subways, basements, floors and reservoirs.	Refer datasheet. Dependent on joint size.	2.5 Liters
Silkon PU200	Cold applied, high performance, fuel resistant, pitch and pitchfree polyurethane sealant.	For sealing joints in concrete joints in concrete roads, concrete runways. Also suitable for sealing concrete joints where fuel and oil spillage might occur like runways, oil terminals, parkings and cargo areas.	Refer datasheet. Dependent on joint size.	3.0 Liters

Product Name	Product Description	Usage of Product	Dosages/Covergae/Yield	Pack Size
Superbond SBR	Styrene butadine polymer bonding agent cum cement mortar & concrete modifier.	Used to modify the concrete for repairing destressed RC members and to modify mortars as waterproofing.	Approximately 4- 5 m2/ litre depending on substrate porosity.	1, 5 & 20 Liters
Superbond AB	Acrylic emulsion cement modifier and concrete bonding agent.	Recommended as a primer for the Silkon cementitious repairs system for improving bonding in renders and mortars, repair of worn, damaged or spalled concrete.	6-8 m2/litre.	1, 5 & 20 Liters
Superbond BA	Solvent free epoxy bonding agent for joining old and new concrete	For bonding new cementitious material to existing cementitious surfaces. For use on horizontal surfaces and on vertical surfaces where mortar or concrete can be supported by formwork. Ideal for extensions and repairs structural concrete in industrial, residential and commercial buildings	0.5, 1 & 4 Liter pack.	0.5, 1 &





ADHESIVES

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Product Name	Product Description	Usage of Product	Dosages/Covergae/Yield	Pack Size
Silproof EC	Elastomeric cementitious coating with inherent crack-bridging ability.	Silproof EC provides a cementitious, elastomeric coating typical applications include: Potable water retaining structures & excluding structures. Internal basement waterproofing. Drainage culverts, bathrooms, shower rooms. Foundations in contact with ground water under saline conditions.	Coverage (at niminal 1 mm thickness) Roller, trowel application: 10.8-11.7 m2 per 23 kg Spray application: 9.0-11.7 m2 per 23 kgs	18 kgs + 5 kgs = 23 kg
Silcrete	Single component polymer for cement based waterproofing.	Silcrete polymer in conjunction with cement provides a seamless waterproof coating to concrete and masonry surfaces.	4.5 to 5.0 m2 / L / coat.	0.5, 1, 5 & 20 litres
Silproof PU800	Liquid applied single component elastomeric waterproofing membrane.	For a wide range of waterproofing applications such as suspended floors, car decks, roof terraces, balconies, precincts, inspection pits, water retaining structures (not potable water), Sewage works and inverted roofs.	0.76 m2/litre @1.3 mm	20 Liters





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Product Name	Product Description	Usage of Product	Dosages/Covergae/Yield	Pack Size
Silcoat SB500	Ready to use colourless silicone water repellent.	To provide a water repellent with improved self cleaning properties on exteriors of buildings, brick work, concrete, cement rendering, natural or cast stone.	4.5 - 9m2/litre	1, 5 & 20 Liters
Silkon Zink Primer	Two component, epoxy-zincrich corrosion protection primer for reinforcement and fabrication steel	Silkon Zink Primer is recommended for priming exposed steel reinforcement for use with Silkon concrete repair mortars. The product actively resists corrosion within the confines of the repair location and avoids the generation of incipient anodes in immediately adjacent locations.	4 -5 m2/litre	1 & 5 Liter pack
Silkon Anticaronation Paint	High performance, pure aliphatic acrylate based protective and decorative exterior antocarbonation coating system for concrete and masonry for bridges, industrial structures and buildings.	Recommended as a protective and decorative coating for atmospherically exposed RC structures from long term protection. It is ideally suited for soffit of bridge decks, RC frames in high rise buildings and similar expensive infrastructures. Can be used both in reparied and new construction situations.	5 -6 m2/litre/coat	5, 20 litres





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PROTECTIVE COATING

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Product Name	Product Description	Usage of Product	Dosages/Covergae/Yield	Pack Size
Silkon RR	Rust remover, cleaning and etching agent.	Silkon RR is used as a rust remover from steel bars prior to encasing in concrete / microconcrete. It can also be used on ohter steel surfaces prior to coating with epoxy systems.	Approx. 2.0 - 2.5 m2/L	0.5, 1 and 5 litre
Silkon EA	Hardened concrete remover, cleaning and etching agent. Also used as tile cleaning agent.	Removes hardened concrete from tools, machinery and equipment, suitable for etching of concrete floors and surfaces prior to application of resin or other surface coating. Also used as tile cleaning agent.	Refer Datasheet	
Silkon WB40	Low viscosity wax emulsion, water based concrete curing compound. Complies to ASTM C 309-90	For spraying on freshly cast concrete, or newly exposed concrete surfaces after removal of form work, to form a temporary membrane which will retain sufficient moisture for effective curing to take place.	3-5 m2/litre	3-5 m2/litre
Silkon RB95	High efficiency polymeric resin based film forming curing agent. Silkon RB95 give 90% or greater curing efficiency when tested as per BS 7542-1992.	As a spray applied membrane to retain moisture In concrete for effective curing. Suitable for all general concrete applications and of partcular benefit for large area concrete surfaces, such as airport runways, roads and bridge works.	3-5 m2/litre	20 & 200 Liters

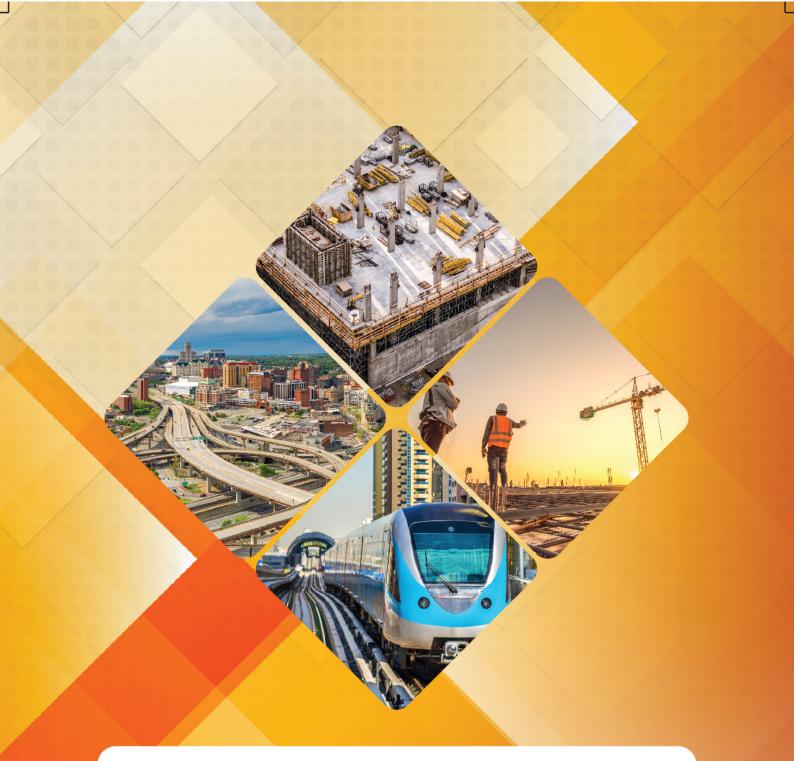
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Head office :

Plot no. 622-P, Sector - 38, Gurgaon

Manufacturing Unit : VPO Goela Tehsil Tauru, District Nuh, Haryana 0124 - 2200622 | +91 - 7011112121 info@silkon.co.in | www.silkon.co.in



GOVERNMENT OF INDIA MINISTRY OF CORPORATE AFFAIRS

Central Registration Centre

Certificate of Incorporation

[Pursuant to sub-section (2) of section 7 of the Companies Act, 2013 (18 of 2013) and rule 18 of the Companies (Incorporation) Rules, 2014]

The Corporate Identity Number of the company is

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Digital Signature Certificate

For and on behalf of the Jurisdictional Registrar of Companies

Registrar of Companies

Central Registration Centre

Disclaimer: This certificate only evidences incorporation of the company on the basis of documents and declarations of the applicant(s). This certificate is neither a license nor permission to conduct business or solicit deposits or funds from public. Permission of sector regulator is necessary wherever required. Registration status and other details of the company can be verified on www.mca.gov.in

Mailing Address as per record available in Registrar of Companies office:



* as issued by the Income Tax Department

cate of Registration ertifi

This is to Certify that Quality Management System of

SILKON ADDITIVES INDIA PRIVATE **LIMITED**

622P, SECTOR - 38, GURUGRAM - 122003, HARYANA, INDIA.

VPO GOYALA, TAURU, MEWAT - 122015, HARYANA, INDIA.

has been assessed and found to conform to the requirements of

1:2 for the following scope :

MANUFACTURING OF ADMIXTURE, GROUTS, FLOORING, SEALENT, ADHESIVES, WATERPROOFING, PROTECTIVE COATING.

Certificate No Initial Registration Date : 11/10/2019 Date of Expiry 1st Surve Due

: 19EQBQ32 : 10/10/2022 : 11/09/2020

Issuance Date : 11/10/2019

2nd Surve. Due : 11/09/2021



Magnitude Management Services Pvt. Ltd 403, Madhubhan Building, 56, Nehru Place, New Delhi-110019, India e-mail: info@mmscertification.com, website: www.mmscertification.com st Subject to Successful Surveillance Audit n case surveillance audit is not allowed to be conducted, this certificat

shall be suspended/withdrawal). Certificate Verification: Please Re-check the validity of certificate at http://www.mmscertificati Certificate is the property of Magnitude Management Services Pvt. Ltd and shall be r activitely when demanded

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भारत सरकार Goverment Of India

वाणिज्य और उद्योग मंत्रालय MINISTRY OF COMMERCE AND INDUSTRY Office of Zonal Director General of Foreign Trade सयुंक्त महानिदेशक विदेश व्यापार का कार्यालय

Central Licensing Area, `A` Wing New Delhi-110002 आयातक-निर्यातक कोड (आईईसी) का प्रमाण पत्र

CERTIFICATE OF IMPORTER-EXPORTER CODE (IEC)

(This is computer generated certificate.The authenticity of this document may be verified by clicking on 'view Your IEC' link on the web site of DGFT i.e. http://dgft.gov.in)

1. नाम/User Name	STLKON	ADDITIVES		DRTVATF	т.тмтттр
I. CIG/USEL NAME	STRVON	ADDIIIVES	INDIA	PRIVAIL	⊔тыттер

2. पता/Address

622P, SECTOR-38, GURUGRAM

GURGAON GURGAON HARYANA-122003

SACHIN TOKAS

DIRECTOR

Branches

Nil

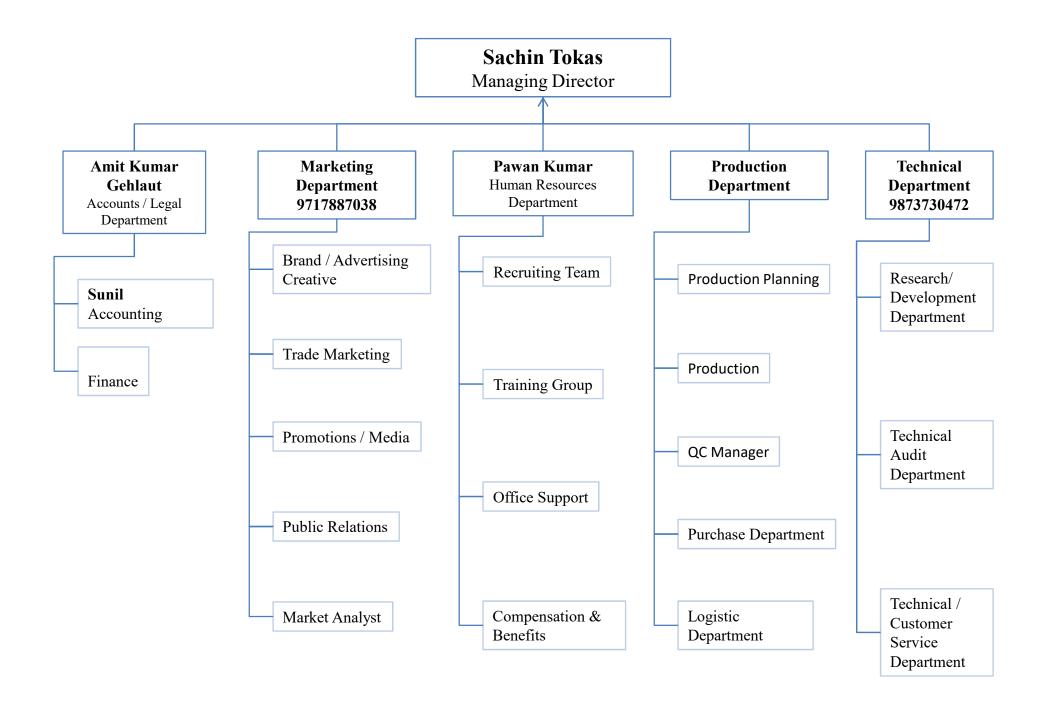
- 3. उस धारक का नाम, पदनाम/Name and Designation of the signatory applicant
- 4. शाखा/इकाई का पता,हो तो/Address of the Branch/Div./Unit if any
- 5. आईईसी संख्या/IEC NumberABCCS1051R6. जारी करने की तारीख/Date of Issue04.10.2019
- **7. स्थाई खाता सं. (पैन)** / PAN ABCCS1051R

स्थान / Place: GURGAON

तारीख /Date : 04.10.2019

System generated IEC certificate

(Issued From File No./[05/04/130/61726/AM20/] तारीख से जारी dated 04.10.2019) टप्पिणी/NOTE: 1यह आईईसी पैन के आधार पर जारी हुआ है।/ This IEC is issued on the basis of PAN.



Land Technocrats Pvt. Ltd.

Consultancy Services for Authority Engineer for Supervision of Construction of 8-lane access controlled Greenfield Delhi-Vadodara Expressway (NH-148N) starting at Junction with Keshopura Road to Junction with MDR-1 (Baonli-Jhalai Road) (Ch. 151 + 840 to Ch. 183+000) in the State of Rajasthan EPC mode under Bharatmala Pariyojana

ICT/842/AE/Cont07/WoM/119

15th July 2020

Senior Project Manager, M/s Gawar Construction Limited. Village-Lahadi Ka Bas, Tehsil-Nagal Rajawatan Delhi – Vadodara, District, Dausa, Rajasthan-303313 E-mail: <u>gclnh148n@gmail.com;</u>

Subject:-Construction of 8-lane access controlled Greenfield Delhi-Vadodara Expressway (NH-148N) starting at ROB near junction with NH-11A (Ch. 183+000 to Ch. 214+260) in the State of Rajasthan EPC mode under Bharatmala Pariyojana (NHAI/BM/Delhi-Vadodara/2018/Pkg7) – Approval of Source, M/S Silikon additives Pvt Ltd,Gurugram (Haryana) for supply of Admixture & Curing compound- reg

Ref.:- 1. GCL/Delhi-Vadodara/Pkg.7/2019-20/311 dated 01/06/2020.

- 2. GCL/Delhi-Vadodara/Pkg.7/2019-20/342 dated 16/06/2020.
- 3. GCL/Delhi-Vadodara/Pkg.7/2019-20/393 dated 03/07/2020

Dear Sir,

As per requisition for source M/S Silikon additives Pvt Ltd for Admixture & Curing Compound material approval with above references gone through the submitted test report conducted by third party NABL Certified approved laboratory, Delhi Test House, Azadpur, Delhi and found the report within the limit.

Hence source of material of M/S Silikon additives Pvt Ltd, Gurugram (Haryana) is being approved to be used for the use for the Project needs as and where required.

Thanking You rants vadod Dausa (Sukumar K Padhy) atni * .b Team Leader

Encl :- Third Party test report sheet attached

Copy to : Project Director, NHAI- PIU - Dausa

Om Huna

Innovative, Creative & Technologically Sustainable Infrastructure Solutions CIN: U74899DL1987PTC026913 Site Office: Komloch Sharma S/o Chhote Ial, Ground F

Corporate Office: A-8, Green Park, New Delhi-110 016, INDIA Tel.: +91-11-40863000 Fax :+91-11-26855252 Email : business@ictonline.com Website: http://www.ictonline.com Site Office: Kamlesh Sharma S/o Chhote Lal, Ground Floor Surya Nagar, Behind Amit Gas Godam, Dausa – Rajasthan - 303303, E-mail: ictdausa@ictonline.com





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Authorised Signatory Director

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A-62/3, G.T. Karnal Road, Industrial Area, Opp. Hans Cinema, Azadpur, Delhi-110 033 (INDIA) Phone: +91-11-47075555 (30 Lines) Fax: +91-11-47075550

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Page 1 of 1



DELHITEST HOUSE



A-62/3, G.T. Karnal Road, Industrial Area, Opp. Hans Cinema, Azadpur, Delhi-110 033 (INDIA) Phone: +91-11-47075555 (30 Lines) Fax: +91-11-47075550

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A-62/3, G.T. Karnal Road, Industrial Area, Opp. Hans Cinema, Azadpur, Delhi-110 033 (INDIA) Phone : +91-11-47075555 (30 Lines) Fax : +91-11-47075550 e-mail : info@delhitesthouse.com

Issued to:	דס אדם	א דמ אדמ אדמ אדמ אדמ אדמ אדמ אדמ אדמ אדמ	
The Project Manager	OTH OTH OTH OTH OTH OTH OTH OTH		
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Sample Description:-Curing Compound Silikon WB 40 (Make-Silkon)

MARK: CONSTRUCTION OF EIGHT LANE ACCESS-CONTROLLED EXPRESSWAY STARTING NEAR JUNCTION OTH OTH DTH DTH DTH DTH WITH NH-11 TO START OF ROB NEAR JUNCTION WORK NH-11A (CH. 183.000 TO CH 214.260) SECTION OF DELIVITY OTH VADODARA GREEN FIELD ALIGNMENT (NH-148N) ON EPC MODE UNDER BHARATMALA PARIYOJANA IN THE MOTH STATE OF RAJASTHAN. M/S SILIKON ADDITIVES INDIA PVT. LIMITED) NTH DTH

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5.	Specific graviry at 25°C	ASTMD-1217	
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ACC Limited	Vendor Code : 910036433	Purchase Order
(Unit: AMETHA CEMENT WORKS)	SILKON ADDITIVES INDIA PVT LTD,	SAP PO No/Plant 1200825697/N239
Address : Tehsil - Vijayraghavgarh	622P SECTOR 38 GURUGRAM	PO Date : 23.04.2021 PO Type : CAP(Capital)
	GURUGRAM,,PIN:122001	Issuing Authority : PLANT PROJECT PROCUREMENT
Ametha , PIN :483880,	Haryana, India	Vendor's Ref/Qtn No :
PAN NO : GSTN NO. : 23AAACT1507C1Z5	GSTN No: 06ABCCS1051R1Z4 PAN No: ABCCS1051R	Created by: Abhishek Singh Please Quote the GSTN Number, PO No., Line
	Tel No : 1800-123-6299	Item No, Name of the Works/Unit and the
Cont. Person:	FAX No :	Contact Person in all correspondences
Tel. No. :	E-Mail : udham@silkon.co.in	(including the Delivery Challan/Invoice)
Fax No. :	Contact: UDHAM SINGH	Please provide copy of valid MSMED
E-Mail :		certificate along with the copy of invoice
		and other documents.

With reference to your quotation and subsequent negotiations, we are pleased to place this Purchase Order on you for the supply of following items/services subject to terms and conditions stated below and printed overleaf/attached with this purchase order

PO Item No /	Item Code	Description & Specification	-	Taxes/Duties Value	Qty	UOM	Price	in INR	Total	Amount in INR
PR No / Dept			Date						Discount	
00001/		Supply of admixtures Supermix PC	31.03.2022	Integrated GST	80,000.000	KG				
1000516590		-550		18%			PER	1 KG	0.00	
/		HSN Code:38249090								
PRJMECH										
00002/		Supply of admixtures Supermix PC	31.03.2022	Integrated GST	120,000.000	KG				
1000516591		-450		18%			PER			
/		HSN Code:38249090					-			
PRJMECH										
				1			1			
Total in I	NR									

Header Information :

* PO for Supply of admixtures Supermix PC -550 and Supply of admixtures Supermix PC -450.

* Other Terms and condition are mentioned in Special Instruction.

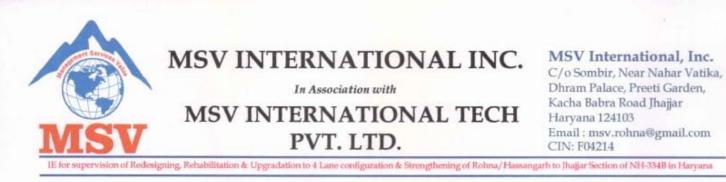
* You staff shall follow all the latest COVID19 guidelines at site as per ACC-LH guidelines.

* All safety/ environment/ labour dept. statutory guidelines to be strictly ensured.

Other terms-

1. Our Authorised Transporter is $\ensuremath{\text{M/s}}$ ARC Ltd.

2. Kindly send PO acceptance by revert mail.



Letter No: MSV/TL/ROH-JJR/2019/474

Date: 26/11/2019

To,

M/s Gawar Rohna Jhajjar Highway Pvt. Ltd. SF-01, JMD Galleria, Sector-48, Sohna Road, Gurugram, Haryana - 122001

- Project Name: Redesigning, Rehabilitation and Upgradation to Four Lane configuration & Strengthening of Rohna/Hassangarh to Jhajjar section from km 44.80 to km 80.250 (Design Chainage) (Length 35.450 km) of NH-334B in the State of Haryana on Hybrid Annuity Mode.
- Reg: Review of Company profile of M/s Silicon Additives India Pvt Ltd for concrete admixture (Super Plasticising Admixture).

Ref: GAWAR/R-J/NH-334B/2019/554 dated 20-11-2019.

Dear Sir,

With reference to above cited subject, the company profile of M/s Silicon Additives India Pvt Ltd regarding concrete super plasticising admixture has been reviewed and found in order to fulfill the requirement for the concrete work. Its approval is accorded subject to compliance of frequency test as well as third party test result of each lot of chemical admixture as per specification of **MORT&H Section 1705 Admixture & IS: 9103 (1999).**

This is for your information.

With Regards,

(N.P.Gupta) Team Leader (Rohna-Jhajjar. NH-334B) For MSV Int. Tech. Pvt. Ltd.



EGIS/TL/PE/GYATRI/PKG-2/264

January 27, 2020

12.7

To Gayatri Projects Ltd. Sector A/02/01, Sushant Golf City

Sector A/02/01, Sushant Golf City Near G. D. Goenka School, ANSAL API, Lucknow

Subject: Consultancy services for Authority's Engineer for supervision of Package I to Package IV of Purvanchal Expressway in the state of Uttar Pradesh on EPC basis; (*Pkg-II*): <u>Submission of credentials of Vendor Source approval for supply of</u> <u>additives/admixture/allied products/other services (e.g. Grouting, Waterproofing, Surface</u> treatment etc); wherever required as per approved design and drawing.

Your ref.: GPL: UPEIDA/PKG-I &II/2018-19/1143A dated 24.01.2020 Your ref.: GPL/UPEIDA/PKG-II/2018-19/1143 dated 21.10.2019

Dear Sir,

Please refer to your above cited letter vide which you have submitted the credential of M/s Silkon Additives India Pvt. Ltd., Gurgaon for approval as source of admixture to be incorporated in the subject project.

We have reviewed the proposal in accordance with the required specification and the same is found in order. Based on the review, the source, M/s Silkon Additives India Pvt. Ltd., Gurgaon is hereby concurred.

However, the acceptance of the admixture from the above mentioned source will be subject to the compliance of the following observations:

- 1. The first consignment and further at reasonably regular intervals have to be got tested for physical and chemical properties through third party approved testing laboratory or any prime engineering institute of repute.
- 2. Admixture shall conform to the requirement of the MoRTH Clause 1012.3 and IS: 9103-1999, 6925.
- 3. Every lot/consignment shall be supported with the manufacture's test certificate.
- 4. If the material do not conform the prescribed test as per specifications or found damaged at any stage, it shall be rejected and removed from site immediately not considered for approval.
- 5. Satisfactory performance of the admixtures should be proved on the laboratory concrete trial mixes.
- 6. The right to reject the above sources without any prior notice is hereby reserved if it is found that the product has failed to comply the specifications of above conditions.



An ISO 9001 : 2008 Certified Company

Regd. Office: T-305, TF, Tirupati Plaza, Sector-XI, (MLU) PKT-4, Plot No. 11, Dwarka, New Delhi-110075, India Tel.: +91 11 4570 4300 Project Office: Plot No. 1/597, Sector-1, Gomti Nagar Vistar, Lucknow – 226 010, Email ID: TL.UPEIDA@egis-india.com

Project: Consultancy Services for Authority's Engineer for Supervision of Package-1 to Package IV of Purvanchal Expressway in the state of Uttar Pradesh on EPC Basis







Your prompt cooperation in this regard shall be highly appreciated.

Yours truly,

For East International S.A. and Egis India Consulting Engineers Pvt Ltd.



(Dr. VK Shriwastava) Team Leader

- Cc: 1. Chief Executive Officer, UPEIDA (for information please)
 - 2. Executive Engineer, PIU-2, UPEIDA, (for information please)
 - 3. Resident Engineer -2

EGIS International S.A. in JV with Egis India Consulting Engineers Pvt. Ltd. An ISO 9001 : 2008 Certified Company Regd. Office: T-305, TF, Tirupati Plaza, Sector-XI, (MLU) PKT-4, Plot No. 11, Dwarka, New Delhi-110075, India Tel.: +91 11 4570 4300

Project Office: Plot No. 1/597, Sector-1, Gomti Nagar Vistar, Lucknow – 226 010, Email ID: <u>TL.UPEIDA@egis-india.com</u>

Project: Consultancy Services for Authority's Engineer for Supervision of Package-1 to Package IV of Purvanchal Expressway in the state of Uttar Pradesh on EPC Basis





Consultancy Services of Authority's Engineer for Supervision of 'Bundelkhand Expressway Project' (Package IV to Package VI) In the state of Uttar Pradesh on EPC basis

ICT/UPEIDA/BLKD/EW/TL/ 123

Date: 20/05/2020

To,

The Project Manager Gawar Construction Ltd. Bundelkhand Expressways, Package-V

Sub: - Consultancy Services for acting as Authority's Engineer "For Supervision of Package-IV to Package-VI of Bundelkhand Expressway" in the State of Uttar Pradesh on EPC Basis-Reg. Approval Mix design of concrete.

Dear sir,

With respect to the test result submitted by you vide letter no- 6a date 14-03-2020 Regarding request proposal for the Approval concrete mix design M-35 RCC found in order satisfactory as per MoRT&H clause- 1703 and 1704 of technical specification.

Based on 28 days cube test result for the above mix design grade concrete is approved having the 28 days cube test result as M-35=46.25MPa respectively for the materials from the following sources:

Course Aggregate : Bhander Quarry (MP)

Fine aggregate	: Betwa River
Cement	: Ultratech cement OPC43 grade
Admixture	: Silicon Plast

Flyash : NTPC

The proportion of mix as under:

	Cement			Water in Ltr				Admixiture
concrete M-35	334kg	83kg	0.36	150.00L	640kg	516kg	686kg	2.29kg@0.55% by weight of cement

Moisture correction shall be applied during concreting of all grade to course and fine aggregate to bring the aggregate equivalent to SSD condition.

Therefore, you are here by directed to go ahead as according to above mention ration by taking care of all the safety aspect. The changes as required at he site can be incorporate with consent to our representative and submit to this office



Innovative, Creative & Technologically Sustainable Infrastructure Solutions

CIN : U74699DL1967PTC026913 Regd. Office : A-8, Green Park, New Delhi-110 016, INDIA Tel : +91-11-40863000 Fax :+91-11-26855252 Email : contracts@ictonline.com Website : http://www.ictonline.com Team Leader Office: C/o Mr. Avnindra Kurnar Ojha 3785, Ram Nagar, Near Chaudhary Charan Singh Inter College, Oral, District Jalaun, Uttar Pradesh- 285001, Email : tl.orai@ictonline.com

and Technocrats Pvt. Ltd

Consultancy Services of Authority's Engineer for Supervision of 'Bundelkhand Expressway Project' (Package IV to Package VI) in the state of Uttar Pradesh on EPC basis

foe approval .if any

The approval can be withdrawn without prior notice in between, if any deficiency found during the routine quality control tests.

Thanking you and assuring our best co-operation in all times

YOUTTRAN

P. N. Sharma Team Leader For ICT Pvt. Ltd.

Copy:

1-The project Director UPEIDA piu-4 konch road jalaun bay pass 1st floor orai-285001.

2-Office file.



Intercontinental Consultants CG and Technocrats Pvt. Ltd.

Consultancy Service for Authority's Engineer for Supervision of Construction of 6-lane access controlled Greenfield highway from Junction with Jind-Safidon Road (SH-14) near Kheri Village to Junction with NH-334B (Charkhi Dadri-Jhajjar Section) near Charkhi Dadri (Ch. 80+000 to Ch. 165+000, length 85 km) in the State of Haryana on EPC mode under Bharatmala Pariyojana [Ismailabad-Narnaul/NH-152D/AE/Pkg2]

ICT/AE/NHAI/IND/NH-152D/2020/PKG-5/TL-218

Date: 25th July 2020

Sr. Project Manager,

Gawar Construction Ltd., Project Office-Rohtak, Haryana

Sub: Consultancy Service for Authority's Engineer for Supervision of Construction of 6-lane access controlled Greenfield highway from Junction with Jind-Safidon road (SH-14) near Kheri village to Junction with NH-334B (Charkhi Dadri-Jhajjar section) near Charkhi Dadri (Ch. 80+000 to Ch. 165+000, length 85 km) in the State of Haryana on EPC mode under Bharatmala Pariyojana [Ismailabad-Narnaul/NH-152D/AE/Pkg2] –Reg. Approval of Mix Designs of Concrete without Flyash.

Ref.: GCL/NH-152D/Pkg-5/2020-21/213, dated 22 July 2020.

Dear Sir,

With reference to your above cited letter, we have reviewed & examined the mix designs submitted by you for cement concrete without flyash, found in order hence approved. The details of Concrete Mix Design are given below:-

- M-10 PCC with OPC (43 Grade) Ultratech Cement and Silkon supermix PC450 Admixture.
- M-15 PCC with OPC (43 Grade) Ultratech Cement and Silkon supermix PC450 Admixture.
- M-20 RCC with OPC (43 Grade) Ultratech Cement and Silkon supermix PC450 Admixture.
- M-30 RCC with OPC (43 Grade) Ultratech Cement and Silkon supermix PC450 Admixture.
- M-35 RCC with OPC (43 Grade) Ultratech Cement and Silkon supermix PC450 Admixture.
- M-35 Pile with OPC (43 Grade) Ultratech Cement and Silkon supermix PC450 Admixture.
- M-40 RCC with OPC (43 Grade) Ultratech Cement and Silkon supermix PC450 Admixture.
- M-45 RCC with OPC (43 Grade) Ultratech Cement and Silkon supermix PC450 Admixture.

If the source of materials of coarse aggregate, fine aggregate and cement shall change, you are required to conduct fresh laboratory tests for mix design and submit the results to our office for approval. At the time of concreting it is necessary to maintain the laboratory test frequency as per the MORT&H specifications for the quality control and assurance. If the supplies varies or deviated from the required test results not conforming as per the relevant IS codes and MORT&H specifications than the approval will automatically stand cancelled.

Thanking you and assuring of our best services at all times.

Yours truly, For Intercontinental Consultants and Technocrats Pvt. Ltd.,

25/07/2020

(Sourabh Singhal) Team Leader (Authority's Engineer NHAI)

Cc. 1.

Project Director, NHAI, PIU-Bhiwani, House No. 1397, Sector -13, Bhiwani. For information.

Innovative, Creative & Technologically Sustainable Infrastructure Solutions



CIN: U74899DL1987PTC026913 Corporate Office: A-8, Green Park, New Delhi-110 016, INDIA Tel.: +91-11-40863000 Fax:+91-11-26855252 Email: business@ictonline.com Website: http://www.ictonline.com

<u>Site Office:</u> Intercontinental Consultant & Technocrats Pvt. Ltd. House No. 1286, Huda Sector No.-3, Rohtak-124001 (Haryana). Tel.: 01262 - 297326





Sector-48, Sohna Road, Sector-48, Sohna Road, Sector-48, Sohna Road, Sector-48, Sohna Road, Gurgaon - 122001 (Haryana) Ph.: (0124) 4854000 Fax>(0124) 4854001/02 Web: www.gawar.in E-mail: gcl@gawar.in Scamfed Company

92

Ref: GCL/NH-152D/PKG-5/2020-21/213

Date: 22 July 2020

Team Leader Intercontinental Consultants and Technocrats Pvt. Ltd. House No. 1286, Sector -3 Rohtak, Haryana

- Project: Construction of Six-Lane access controlled highway (NH-152D starting from Junction with NH-352 (Jind-Gohana) near Julana to Junction with NH-9 (Rohtak-Jind section) near Kharkara [Ch. 108+000 to 131+000; Length 23 km] on EPC Mode under Bharatmala Pariyojana in the State of Haryana.
- Subject: Submission for approval of Concrete Mix Design with Ultratech OPC 43 Grade Cement without Flyash– Reg.

Dear Sir,

1.

Please find enclosed herewith the test result of Concrete Mix Design for following:

- M-10 PCC with OPC (43 Grade) Ultratech Cement and Silkon Supermix PC450 Admixture
- 2. M-15 PCC with OPC (43 Grade) Ultratech Cement and Silkon Supermix PC450 Admixture
- 3. M-20 RCC with OPC (43 Grade) Ultratech Cement and Silkon Supermix PC450 Admixture
- M-30 RCC with OPC (43 Grade) Ultratech Cement and Silkon Supermix PC450 Admixture
 M-35 RCC with OPC (43 Grade) Ultratech Cement and Silkon Supermix PC450 Admixture
- M-35 RCC with OPC (43 Grade) Ultratech Cement and Silkon Supermix PC450 Admixture
 M-35 Pile with OPC (43 Grade) Ultratech Cement and Silkon Supermix PC450 Admixture
- M-35 Pile with OPC (43 Grade) Ultratech Cement and Silkon Supermix PC450 Admixture
 M-40 RCC with OPC (43 Grade) Ultratech Cement and Silkon Supermix PC450 Admixture
- M-40 RCC with OPC (43 Grade) Ultratech Cement and Silkon Supermix PC450 Admixture
 M-45 RCC with OPC (43 Grade) Ultratech Cement and Silkon Supermix PC450 Admixture
- 8. M-45 RCC with OPC (43 Grade) Ultratech Cement and Silkon Supermix PC450 Admixture

This is submitted for your kind perusal, review and needful approval.

Thanking you,

For Gawar Construction Limited

eepak Kumar Gupta) Senior Project Manager

CC: Project Director, NHAI, PIU-Bhiwani (For informa

Encls: As above

RE-I	-/		Review and examinent Mixdering
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Intercontinental Consultants & Technocrats Pvt. Ltd.

Regd. Office : DSS - 578. Sector 12-17. Histor - 125001 (Harvene) Phy (01662) 246117. 250361 Fax - 10 (662) 543895

•	Client		•					National	Highway	National Highway Athurity of India	India					
Aut	Authority's Engineer						Intercon	tinental c	onsultant	Intercontinental consultants and Technocrats Pvt. Ltd.	ocrats Pvt	Ltd.				
Con	Contractor							Gar	war Const	Gawar Construction Ltd.						
							SUM	MARY OF	DESIGN N	SUMMARY OF DESIGN MIX WITHOUT FLYASH	IT FLYASH					-
	- "	CDADE OF	ADMIVTIBE			IN	INGREDIENT (Kg)	(Kg)					7 DAYS	28 DAYS		-
SR. NO.	GRADE	CEMENT	BRAND NAME	CEMENT	MICRO	SAND	10 MM	20 MM	WATER	ADMIXTURE	W/CRATIO	SLUMP IN	COMPRESSIVE STRENGTH IN N/MM ²	COMPRESSIVE STRENGTH IN N/MM ²	TARGET MEAN STRENGTH IN N/MM ²	
1	M-10 PCC			230	0	832	505	761	138	0.920	0.6	145	11.27	16.53	15.78	
2	M-15PCC			250	0	849	583	716	125	1.125	0.5	170	19.36	26.9	25	
с	M-20RCC			310	0	804	487	735	139	1.550	0.448	170	24.46	31.92	30	
4	M-30RCC	ULTRATECH	SILKON	385	0	763	462	698	154	2.118	0.4	170	32.09	43.07	42	
S	M-35RCC	OPC43	PC450	395	0	759	460	694	154	2.370	0.39	175	37.1	48.82	47	
9	M-35PILE			413	0	741	449	677	165	2.891	0.4	COLLAPSE	36.15	48.36	47	
7	M-40RCC			433	0	743	451	680	156	3.031	0.36	170	40.55	53.61	52	
∞	M-45RCC			443	0	741	449	677	155	3.540	0.35	155	44.15	60.02	58	

Intercontinental Consultants & Technocrats Pvt. Ltd. Rohtak, (Ismailabad-Namaul/NH152/AE/PKG-2) Dom H' (UGME)

Allow M.E. EPC Contractor Rep.

Authority Engineer Rep.



GAWAR CONSTRUCTION LIMITED SF-01, JMD Galleria, Sector-48, Sohna Road, Gurgaon - 122001 (Haryana) Ph.: (0124) 4854000 Fax: (0124) 4854001/02 E-mail: abhishekjain@gawar.in CIN No.: U70109HR2008PLC037773

An ISO 9001:2008 Certified Company

Ref. No.: GCL/GGN/PO/18-19/587

Dated:- 02-April-2018

To, Sachin Tokas Silkon Chemicals Village Goela Tauru, Nuh-122105 Haryana

GSTIN:- 06ARLPT6055E3ZH

Sub: Regd.- Purchase order of Silkon PCE 450

Dear Sir,

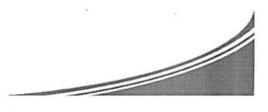
As subject citied above, we are pleased to place an order for the following item:-

Sr. No.	Description of Goods	QTY (in MT)	Rate	Amount
1	Silkon PCE 450	150	::	
	TOTAL			,

Terms & Conditions:-

- 1 Billing Address: Gawar Construction Limited Shop No. 203, Plot No. 15A/44, 2nd Floor Pratap Chamber Karol Bagh, New Delhi-110005
- 2 Delivery Site Casting Yard adjoining to Bye Pass Road, Mahipalpur, New Delhi
- 3 Contact Person : Abhishek Jain (M) 09582807003
- 4 Buyer GSTIN:- 07AADCG1026A1ZF

Thanks & Regards For Gawar Construction Limited Authorized Signatory





PURCHAS				SE ORDER Inspiring the future					
PO Details				Princ	Principal Business Place Name, Address				
PO	No	: 20043	533	Addr	Address : GKC PROJECTS LTD, Telipura Ro Bus Stand,				
Date of PO : 10.02.2021									
Am	endment No	:				"Bila	spur,,495001.		
Dat	e Of Amendr	ment :							
Pla	nt Code	: 2024/F	aipur- Kodebad Road	GSTI	N	: 22AA	ACCG1395F2Z	X	
Ver	ndor No	: 100520	00	State	Code	: 22			
Ver	ndor Princip	al Business P	lace	Place	e of Supp	ly Nan	ne,Address	•	
SIL	KON ADDITI	VES INDIA PF	RIVATE LIMITED	GKC	Projects I	limited,	Raipur - Kodeb	ad,No 85 , CGHB	
622	P,SECTOR	-38,,GURUGF	AM ,Gurgaon	Color					
Har	yana-122001					Darwa	r Building,Raipu	ur,Chattisgarh -	
			0040540474	4920	01,				
	ndor GSTIN		CS1051R1Z4	Buye	r Name	: Mr.N	aveen		
	ndor Class	: Registe	ered	Conta	act.No	: 0879	0951114		
	N No	-		State	Code	: 22			
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	ods Dispatcl								
SIL	KON ADDITI	VES INDIA PR	RIVATE LIMITED,622 P,,S	SECTOR	R-38,,GUI	RUGRA	AMGurgaon,,Ha	ryana-122001	
GS ⁻	TIN	: 00	6ABCCS1051R1Z4		×			÷	
You neg	Dear Sir / Madam, Your Quote/Bid No QT-0105/19NOV/UDHAM dated 19-11-2020 read with subsequent discussions and negotiations is acceptable. The Terms and Conditions mentioned below and the attached General terms and conditions form a integral part of this Purchase Order.								
			,						
SN	HSN Code	Material Desc	ription	Unit	Quantity		Unit Rate (INR)	Amount (INR)	
10	3824	ADMIXTURE		MT	17.	.000			
20	3824	ADMIXTURE		MT	8.	.000			
							Total Value		
1		×		ů.	N	et Valu	ue Before Tax		
					_		IGST		
						Net Va	alue After Tax		
Ord	er value in v	vords:							
Ter	ms & Cond	litions							
Pric	Price Basis : IGST shown above is @1 applicable.				CS@0.07	5% wil	l be paid extra t	by GKC if	
Trai	nsportation	:	Inclusive upto our site						
			Ŷ				Ala		

GKC Projects Limited

ISO 9001 : 2015 || ISO 14001:2015 || OHSAS 18001:2007

CIN: U45200TG2004PLC043015

Page 1 of 2

Regd. & Corp. Office : Sy. No.9 (P). CII Green Building Lane, HITEC City, Kondapur, Hyderabad - 500084, Telangana, India. Ph : +91 40 44554545, Fax : +91 40 44554555 www.gkcpl.com Po No : 20043533

VendorNo / Name ·	1005200 / SILKON ADDITIVES INDIA PRIVATE LIMITED
venuonno/mame.	10052007 SILKON ADDITIVES INDIA FRIVATE LIMITED

Payment Terms	:	100% Advance Payment Along with Purchase Order.
Delivery Date	:	As per our site requirement and will be intimated by our site people, at the deliver address mentioned below.
Other Contractual Stipulation	:	Supermix PC450 Advanced Low Viscosity High Performance Super Plasticiser Complies with IS/9103-1999 (2007 & ASTM C494)
		Material supplied should be as per Design Mix Approved at site. If the quality of the material is not as per approved design mix the same will be rejected from our end and the same has to be replaced at free of cost.
		Note: Empty Barrels belongs to Silkon Additives India Pvt Ltd Assets and will be on returnable basis to be lifted by you (Silkon).
Consignee Tax Detail	s :	
Delivery Address	:	GKC Projects Limited, Raipur-Kodebad Road NH43 Near Mintu International School Tehsil - Abhanpur , Village # Bendri New Raipur, Chhattisgarh # 493661 Contact Name: Mr.Vijay (Stores) Contact Number:09573011163
Billing Address	:	GKC PROJECTS LTD CGHB Colony,No 85 Banayan, Near Saddani Darwar Building, Boriyakala, Raipur, Chattisgarh - 492001
Special Terms and Conditions	:	Test Certificate: Please arrange to submit the test certificates along with the supplies.
statutory levies, duti	ies and	ken from us before dispatch of the material for any variations arising in the taxes at the time of delivery. In the absence of the same, the additional have to be borne by you.
Please acknowledge on all pages.	e the a	dditional copy of PO being sent and return it to us duly signed and stamped
	ас.	For GKC Projects Limited
		Authorised Signatory

Billing	Address								
•	TRI PROJECTS LIMITED				4				
	PEIDA WORKS.,				GAYATRI				
Sector	:A/02/01,Sushant Golf City,				GAYATRI				
Ansal	API,LUCKNOW,U.P-226030.								
Conta	ct Person Mr.Pavan: 9437039352				QSF: 8.4.2.01				
	ŀ	Purch	ase Oro	ler					
То	SILKON ADDITIVES INDIA PVT LTD			Р	.O. No. GPL/Gen/19-20/C-807				
	622P,Sector-38,Gurugram				Date:February 10th 2020				
	Haryana-122001.				Indent No:1772/01.02.2020				
	Contact: Mr.Udam Singh-9717887038	8							
Dear S	Sirs,								
With 1	reference to your Quotation no:QT/004	- /31 dt	.10.02.20,	we are					
	ed to place the purchase order as per te								
s.no.	Item Description	units		price/unit	Value (Rs.)				
1	SILKON WB30-Water Based Curing Compound	KG	15000						
				GST@18%					
	1			TOTAL					
Term	s and conditions:								
1	Price	As she	own abov	e					
2	Our GST No.	09AA	ACG8040K	1ZH					
3	Transportation	Price	is inclusiv	e of Transport	ation.				
4	Packing	In 230) kg barre	ls. Barrels are	returnable to you.				
5	Payment Terms			after delivery					
6	Delivery Schedule	within	n 4 days a	fter placing the	e order.				
7	GPL GST NO	09AA	ACG8040	K1ZH					
8	Delivery at	CAMI	P-3,Batma	u.					
9	Delivery address for Camp-3	Gayatri projects Limited, Camp-3, Bhatmau -Village, Jagdishpur - Tesil, Amathi- Dist, Uttar Pradesh, Pin : 227809/Contact no:Mr Vijay Kumar- 7894438406,8327757899							
10	Specifications	Specif	fications 8	Description a	s per your referred offer.				
11	Jurisdiction		Specifications & Description as per your referred offer. For all disputes and for all purposes -Hyderabad,Telangana only.						
Kindly For G	Y return the duplicate copy of this order	r, duly s	signed, as	a token of you	r acceptance.				

AUTHORISED SIGNATORY

Pendy-site Office: papara (u)

Gayatri Projects Limited,UPDIEA Near GD Goeinka School,Ansal API,Sushant golf city Lucknow-Uttar Pradesh-226030.

Ċ

ucknow

Regd.&Corp.Office

Gayatri Projects Limited,B1,6-3-1090 TSR Towers,Raj Bhavan RoadSomajiguda Hyderabad 500082.Telangana.

TPF GETINSA EUROESTUDIOS, S.L.

TL Office	: HIG-B-351, Siddharth Enclave (Vistar), Behind State Bank	
	of India	
	Taramandal, Gorakhpur – 273016	
RE Office	e: 2nd Floor, House No. 683, Sidhari, Naya Pool, Nr. Bank	
	of Maharashtra, Azamgarh, UP - 276001	
Email:	tpfgetinsa.gorakhpur@gmail.com, tpfgetinsa.azamgarh@gmail.com	
Project:	Consultancy Services for acting as Authority's Engineer	
	for Supervision	
	of Gorakhpur Link Expressway Project (Package I and II) on	
	EPC Basis.	
FCRN:	F04460	



Ref: TPF/AE/TL/SCIA037/EPC/2020-21/ / 6 6

Date: 05.12.2020

To The Authorized Signatory, Apco Infratech Pvt.Ltd Camp-1 Village: Nakaudi, Post: Sikariganj, Tehsil- Khajni, Dist- Gorakhpur- 273213.

Sub: Consultancy service of "Authority Engineer" for supervision of Gorakhpur Link Expressway (Package-1&2) from Jaitpur (Dist. Gorakhpur) to Salarpur (Dist.Azamgarh) (KM -0+817 to KM 90+535) in the state of Uttar Pradesh on EPC basis- Submission of Credentials of Silkon Additives India PVT.LTD for Concrete Admixtures and Curing Compound.

Ref: Your letter no. APCO/GLE/2020/171 dated :30.09.2020

Dear Sir,

Reference to above mentioned letter Credentials of Silikon Additives India Pvt. Ltd. for Concrete Admixtures and Curing Compound has been reviewed and found satisfactory. Further before you to place the order for procurement following things to be done.

- 1. Joint sampling of admixture shall be carried out in the presence of our representative and send to third party test to NABL approved lab.
- 2. Final approval of source shall be after getting third party result only.
- 3. In case material does not conform to the requirement of the specification it will lead to rejection and source shall be deemed to be disapproved.
- 4. Manufacture test certificate shall be submitted for every consignment and third party test in independent laboratory shall be done in each consignment to site.

This is for your kind suggestion and information please.

Thanks & Regards Yours Sincerely

Team Leader TPF Getinsa Euroestudios S L

Copy submitted to:

- 1. The Chief Executive Officer, UPEIDA. For Kind Information Please
- 2. The Chief General Manager, UPEIDA. For Kind Information Please.
- 3. The Chief Engineer, UPEIDA- For Kind Information Please
- 4. The Executive Engineer, PIU-I, Gorakhpur Link Expressway- For Kind Information Please.
- 5. The Chief Project Coordinator, TPF Getinsa Euroestudios S L- For Kind Information Please.
- 6. The RE-1, TPF Getinsa Euroestudios S L- For Kind Information Please.

architects engineers & consultants pvt. ltd.

Authority Engineer for Supervision of Construction of 4-lane Signature Bridge (900m Long Central Cable Stayed Module) connecting missing link between Okha and Beyt Dwarka including approaches on new NH-51 in the state of Gujarat on EPC

Letter no.:AA/TL/SPS/2021-22/11

Date:-07/04/2021

To, The Project Manager S P Singla Construction Pvt. Ltd., Project Office near India Coast Guard, In fornt of Rukana Peer, Gayatri Matre Road, Okha. Gujarat.

Subject: Construction of 4- Lane Signature Bridge (900m long central cable stayed module).
 Connecting missing links between Okha and Beyt Dwarka on EPC Mode Including
 Construction of approaches on new National Highway No. NH – 51 Gujarat. Reg:
 "Regarding Vendor approval for Admixture Silkon Additives India Pvt. Ltd."

Ref: 1. SPS/SITE/SB/540 on dated:05.04.2021.

Dear Sir,

With reference to above the, submitted credential of M/S Silkon Additives India Pvt. Ltd., Gurgaon for approval as source of admixture to be used in the Project.

We have reviewed the proposal as per required specification and same is found in order. Hence, above source is being approved subject to following conditions are as under:

- 1. The first consignment and further at reasonable regular intervals have to be got tested for physical and chemical properties through approved third party testing laboratory or any prime engineering institute of repute.
- 2. Admixture shall conform to the requirement of the MoRTH Clause 1012.3 and IS:9103-1999,6925.
- 3. Every lot/consignment shall be supported with the manufacture's test certificate.
- 4 If the material do not conform the prescribed test as per specifications or found damaged at any stage, it shall be rejected and removed from site immediately not considered for approval.
- 5. Satisfactory performance of the admixtures should be proved on the laboratory concrete trial mixes.
- 6. The right to reject the above sources without any prior notice is hereby reserved if it is found that the product has failed to comply the specifications of above conditions.

This is your kind information and record please.



Project Office :

kavula Kesidency, Silhagar Colony Main Kd., Hyderabad - 500 082, India. CN: 074200162005P1C045491 Tel: +91-40-4848 3456, 23737533; Fax: +91-40-23735277, e-mail: aar-ee@aarvee.neb.web: www.aarvee.co Thanking you. Aarvee Associates Architects Engineers & Consultants Pvt. Ltd.

Saval

For Team Leader Cum Senior Bridge Engineer **A V Nageswar Rao** Resident Engineer Cum Bridge Engineer

ž

Copy to :

1. The Executive Engineer N H Division, Rajkot (GUJ) – For information please 2. The Engineer, Aarvee Associate, Hyderabad.

Date: 25-11-2020

LION ENGINEERING CONSULTANTS PVT. LTD.

"Centributing in Bailding the Infrastructure of the Netion"

Ref: LEC/A.E./NH-43/R-K/638

To,

The Project Manager, M/s GKC Projects Ltd. 85-Baniyan, Opp. Shadani Darbar, Boriakala, Raipur- Dhamtari Road, Raipur (C.G) - 492001 E-mail: suman.kumar@gkcpl.com

Project :- Four Lanning of Raipur - Kodebad Section from 10.200 TO Km. 43.400 of NH-43 in the state of Chhattisgarh under NHDP Phase - IV on EPC Mode.

Sub: Source approval for Silkon Admixture - Reg.

Your letter no. GKCPL/NHAI /R-K/Pkg-1/175, Dated 23-11-2020. Ref:

Dear Sir,

In reference to above cited letter, the submission has been reviewed and following are our observations:

The proposed source meeting the requirements / compliance to the contract specifications thus initial approval is subject to fulfill the following Conditions.



1. All consignments shall be subject to independent testing at approved laboratories and shall confirm to IS: 9103 and clause 1012 of MoRT&H standard Specifications for using Admixtures.

- 2. Each lot shall be inspected jointly with the Authority Engineer before using in the Concrete works and testing in accordance with the frequencies set out in the specifications shall be undertaken on each batch delivered to the site.
- 3. The contractor has to furnish the manufacturer test results of recently manufactured material from the proposed source as per MoRT&H specifications.

This is for your information and further necessary action.

For Lion Engineering Consultants In association with Synergy Engineering Group Pvt. Ltd.

S.K. Jang

(S.K. Jaiswal) Team Leader

Copy to:

(1) The Project Director, NHAI, PIU-Dhamtari.

(2) H.O., Lion Engineering Consultants, Bhopal.

			Purchas Order	se	PO.NO.	524404	Rev.No.	0	
O Punj Lloyd					Vendor SILKON ADDITIVES INDIA PRIVATE LIMITED #ABCCS1051R				
					Address				
17-18							GURUGRAM,		
Nehru F	Place					NA - 122001,	GUILUGILAM,	GUNGAON,	
New De					GURUG	,			
Delhi					Haryana	,			
110019					122001				
India.									
					GST NO	06ABCCS1	051R1Z4		
Ship to		D Villaga Kanaada D	Deat Dharain		Bill to		illege Konood	Deat Dharaina	
	CG 49311	D. Village - Kapasda F 1 India	Post - Dharsiv	a		G 493111 In		a Post - Dharsiva	
Raipur	00 40011	i india.							
GST NO	D. 22AAA	CP0305Q1ZO			GST NO. 22AAACP0305Q1ZO				
Vendor	no.	141116			PO Date/Buyer 26-JUN-2020/Khan, Mr. Imteyaz				
	-					,			
		., SANDEEP			PO Rev Date/Buyer				
		AS PER ANNEXURE			Requester ALAM, Mr. MD. PERWEZ				
		N ADDITIVES INDIA	PRIVATE LIN	VITED) for suppl	y of Curing C	ompound at Ra	ipur Simga Road	
	Chhattise		HSN/SAC	Ller		Unit	Tax	Total Amount	
SIno	item De	scription	HSN/SAC	Uor	n Qty	Price	Rate	Total Amount	
1	CURINO	G COMPOUND		LTR	1000	FILCE	Nale		
1					0			, , , , , , , , , , , , , , , , , , ,	
		a a varabla)					18%		
Amoun	t in Word	ecoverable)					1070		
							Total:		
INR									
Note:							Autho	orized Signatory	
Note to	Supplier	:							
	2.4661.01	-							
Please	mention p	urchase order number	r in all transad	ctions					

Annexure Details:

Sno	Percentage Payment	Condition	Condition Details
1	100	As per annexure	Payment shall be released within 7 days after receivng the material at site in acceptable condition

524404 0 06-JUL-2020

This Purchase order (PO) serves to award the supply of Curing Compound resin based Aluminized reflective (SILKON RB95) for Raipur Simga Road Project by Punj Lloyd Limited (hereinafter referred to as "PLL") to M/s SILKON ADDITIVES INDIA PRIVATE LIMITED (herein after referred to as "Supplier").

1. SCOPE OF WORK

Supply of Curing Compound resin based Aluminized reflective (SILKON RB95) to PLL's Raipur Simga Road Project site, Chhattisgarh. Material Loading, Transportation upto PLL's Site shall be arranged by supplier. Supplier to provide contact details of drivers and so that proper track of their movement can be kept by PLL. Transporter shall send vehicle and driver details within 2 hours of vehicle placement to PLL by E - mail / Fax / Phone.

Unloading at site is in scope of PLL and Empty barrels are on returnable basis.

2. ORDER PRICE

The Order value shall be as per unit rate basis with a basic total order value of INR 430,000/- (Indian Rupee Four Lacs Thirty Thousand only) including Packing, Loading, Transportation up to PLL's Site, GST @ 18% shall be extra as applicable. Payment shall be made on actual material supplied by the Supplier and duly certified by PLL.

The Order Price shall remain fixed and firm for the referred scope of works and shall not be subjected to any kind of escalation throughout the execution of the Purchase Order, including currency, raw material, oil price and wages fluctuations.

3. TERMS OF PAYMENT

100% of the Supply value shall be paid against receipt of material at site in acceptable condition, within 10-15 days from the date of receipt of the Tax invoice duly certified by PLL.

4. TAXES & DUTIES:

Taxes & duties shall be paid extra at actual at prevailing rate at the time of dispatch of finished product by PLL. The present applicable tax are:

IGST : 18%

Prices are inclusive of customs duty for all imported components and no custom duty variation shall be applicable if any.

Seller will make Punj Lloyd Ltd. as a consignee in all dispatches.

5. TRANSPORATATION UP TO SITE:

Materials shall be transported by seller up to Site by their approved transporters and the freight charges up to site are inclusive in order value. However, PLL shall reserve the right to lift the material from seller's works.

In case of receipt of any defective barrel / material at site, Supplier shall make immediate arrangement to replace the same at his own expense.

6. DELIVERY / COMPLETION:

Timely delivery of the materials covered under the scope of PO is essence for this project. This is a fast track project and therefore seller shall put best efforts in delivering the material within 4-5 days from the receipt of formal instruction from Punj Lloyd for the Supply of material.

No material shall be dispatched without PLL's formal clearance.

7. COMPLIANCE:

There is a total compliance & confirmation by the vendor to the scope & specifications, Curing Compound should be in strict compliance with the IS 9103 : 2007, there is no deviation whatsoever.

Quality is essence for this project. In case of receipt of any non-complained material at site, Supplier shall make his own arrangement to replace the same with immediate effect. PLL reserve all right to penalize supplier for supplying any non-complied products to PLL's site.

8. EFFECTIVE DATE

Supplier is authorized to make all necessary arrangements to pursue with and actually commence the Supply subject to the terms of this PO.

9. LD CLAUSE:

LD for delay in delivery shall be applicable after one week of grace period @ 0.5% of the value of undelivered quantity per week of delay or part

Printed by - ()

Punj Lloyd Limited

thereof subject to a maximum of 5% of undelivered order value.

10. APPLICABLE LAW

This PO is governed, construed and effected in accordance with the Laws of India.

Supplier shall comply with all applicable laws, rules and regulations for obtaining Regulatory authorities' approval, licenses, permits etc for the supply of materials.

11. DEFINED TERMS

The terms defined herein shall have the same meaning as assigned to them in the PO unless otherwise provided herein.

12. CORRESPONDENCE ADDRESS

PUNJ LLOYD LIMITED Vill. Kapsada, Near Tiwrayia More, Dharsiwa, Raipur-493221

13. POST ORDER COMMUNICATION PROTOCOL:

For Commercial Matters Original Documents /Invoices: Contact Person at HO : Mr. Pallaw Kumar Ph.: 0124 2620 242 E-Mail: pallawkumar@punjlloyd.com

Contact Person at Site : Imteyaz (Site Buyer) Mobile No. : 09109993464 E-Mail: imteyazkhan@punjlloyd.com

14. AKNOWLEDGEMENT

Please acknowledge receipt of this PO and return one duplicate original to us within three (3) working days from the date of this PO.

Thanking You,

Yours faithfully,

For Punj Lloyd Limited

Accepted by

M/s SILKON ADDITIVES INDIA PRIVATE LIMITED

Authorized Signatory

Authorized Signatory



PURCHASE ORDER

ivoice To	Voucher No	Dated						
.B.G. international Pvt. Ltd.	5	7-Jan-2020						
I Na Pa 8, Bhairahawa	- A	Mode/Terms of	Mode/Terms of Payment					
-Mail account@rbginternational.com np								
uppher	Supplier's Ref /Ord	er N Other Referent	28(\$)					
ilikon Additives India Pvt. Ltd.	5		1					
laryanaIndia	Despetch through	Destination	Destination					
	Terms of Delivery		A					
51 Description of Good	dş	Due on	Quantity	Rate	per	Amount		
No.				5				
1 Supermix 350		7-Jan-202	0 20000 Kg		Kg			
st orgif-Mail - admini@tallyworld org	24	1				INECCO		
	1					E. 62		
		1				irgeable (in word		
Indian Rupee			fe	or R.B.(3, Inti	emational Pvt L		
Company's PAN 609641712		G.INTERNIA						
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					1	11/200		

R.B.G. INTERNATIONAL PVT LTD

Billing	Address								
· ·	RI PROJECTS LIMITED				4.				
C/O UP	EIDA WORKS.,				GAYATRI				
Sector:	A/02/01,Sushant Golf City,				Gunnard				
Ansal A	API,LUCKNOW,U.P-226030.								
Contac	t Person Mr.Pavan: 9437039352				QSF: 8.4.2.01				
	Purchase Order								
То	SILKON ADDITIVES INDIA PVT LTD			P	0. No. GPL/Gen/19-20/C-809				
	622P,Sector-38,Gurugram				Date:February 13th 2020				
	Haryana-122001.				Indent No:1775/10.02.2020				
	Contact: Mr.Udam Singh-9717887038								
Dear S	irs								
	eference to your Quotation no:QT/004	/31 dt	10.02.20.	weare					
	d to place the purchase order as per ter								
s.no.	Item Description	units		price/unit	Value (Rs.)				
	SILKON SUPERMIXPC 350								
1	Admixture	KG	30000						
		I		<u>GST@18%</u>					
	I			TOTAL					
				-					
Term	s and conditions:								
1	Price		own above						
2	Our GST No.		ACG8040K						
3	Transportation			e of Transport					
4	Packing				returnable to you.				
5	Payment Terms			after delivery					
6	Delivery Schedule			fter placing the	e order.				
7	GPL GST NO		ACG8040						
8	Delivery at	CAM	P-3,Batma	u.					
		Gayat	tri projects	s Limited, Cam	p-3, Bhatmau -Village,				
9	Delivery address for Camp-3	Jagdis	shpur - Te	sil, Amathi- Dis	st, Uttar Pradesh, Pin :				
1 9	Derivery address for Camp-5			ct no:Mr Vijay l	Kumar-				
		7894	438406,83	327757899					
10	Specifications	Speci	fications &	& Description a	s per your referred offer.				
11	Jurisdiction	For a	ll disputes	and for all put	poses Hyderabad, Telangana				
11	·	only.							
	return the duplicate copy of this order	c. duly	signed, as	a token of you	r acceptance.				
For G	AYATRI PROJECTS LIMITED.	C/a/							
1	(internet)	151							
N	15120								
AUTH	IORISED SIGNATORY	21							
Paul	y paparantajan Lucks	104							
Site Of	Site Office: Regd.&Corp.Office								

Gayatri Projects Limited, UPDIEA

Near GD Goeinka School, Ansal API, Sushant golf city Lucknow-Uttar Pradesh-226030. Gayatri Projects Limited, B1,6-3-1090 TSR Towers, Raj Bhavan RoadSomajiguda Hyderabad 500082. Telangana.

Billing	Address								
GAYAT	GAYATRI PROJECTS LIMITED								
C/0 UP	EIDA WORKS.,				GAYATRI				
	A/02/01,Sushant Golf City,								
	API,LUCKNOW,U.P-226030.			,					
Contac	t Person Mr.Pavan: 9437039352				QSF: 8.4.2.01				
	P	urch	ase Ord						
То	SILKON ADDITIVES INDIA PVT LTD			Р	.O. No. GPL/Gen/19-20/C-807				
	622P,Sector-38,Gurugram				Date:February 10th 2020				
	Haryana-122001.				Indent No:1772/01.02.2020				
	Contact: Mr.Udam Singh-9717887038								
Dear S		(D. 4. 1)							
	eference to your Quotation no:QT/004,								
please	d to place the purchase order as per ter								
s.no.	Item Description	units	Qty	price/unit	Value (Rs.)				
	SILKON WB30-Water Based Curing		1 7 9 9 9	_					
1	Compound	KG	15000						
	A			GST@18%					
				TOTAL					
<u> </u>				TOTAL					
Town	, and conditions.								
<u>1 1</u>	<u>s and conditions:</u> Price	Acch	own abov	2					
2	Our GST No.		ACG8040K						
3	Transportation			e of Transport	ation.				
4	Packing				returnable to you.				
5	Payment Terms			after delivery					
6	Delivery Schedule			fter placing the					
7	GPL GST NO		ACG8040						
8	Delivery at		P-3,Batma						
۱, etc.		<u> </u>							
		Gayatri projects Limited, Camp-3, Bhatmau -Village, Jagdishpur - Tesil, Amathi- Dist, Uttar Pradesh, Pin :							
9	Delivery address for Camp-3	1. 0	-	sil, Amathi- Di ct no:Mr Vijay					
				327757899	Kullai-				
10	Specifications				s per your referred offer.				
11	Jurisdiction		ll disputes	and for all pu	rposes -Hyderabad,Telangana				
		only.							
Kindly	y return the duplicate copy of this order	r, duly	signed, as	a token of you	r acceptance.				
For G	AYATRI PROJECTS LIMITED. Projec								
	Comptine (S)	1-1							
1		12							

AUTHORISED SIGNATORY Punty papara a

Gayatri Projects Limited, UPDIEA Near GD Goeinka School, Ansal API, Sushant golf city Lucknow-Uttar Pradesh-226030.

uchnow

Regd.&Corp.Office

Gayatri Projects Limited,B1,6-3-1090 TSR Towers,Raj Bhavan RoadSomajiguda Hyderabad 500082.Telangana.



	PURCHASE C	RUEK							
Invoice To	Voucher No	Dated							
R.B.G. International Pvt. Ltd. 6			20						
Si Na Pa 8 Bharahawa		Mode/Tem	ns of Payment						
E-Mail account@rogintemational.com.np		Credit 90 (lays						
Supplier	Supplier's Ref /Order	No Other Refe	rence(s)						
Silikon Additives India Pvt. Ltd.	6								
Haryana, India	Despatch through	Destination							
Fleir yen ic., it have		Bhairahawa, Nepal							
	Terms of Delivery								
		-	Due on	Quantity	Rate	per	Amount		
Si Description	1 DF 190005		00000						
No		-	21-Jan-2020	• 10000 Kg	3800	Kg	300000.00		
1 Supermix 350			21-Jan-2020	10000 Kg	-	Ka			
2 Supermix PC550			2 -Jarreveo						
d orgE-Mail - admin@tallyworld.org									
C Cryc-man - permitigrary retries y		Tota	4	20000 Kg		1	INR		
Amount Chargeable (in words) : hallan To	No. COLORED TO NO.	and income of the	mby:	all a second					
Amount Chargesole (in words) - man	for R.B.G. Internatio	onal Pvt. Ltd.							
Company's PAN 609641712			Authorised	Signator	B	RNATIO			
	This is a Co	omputer Gener	ated Document			0	Ane -		
						1 il	1.4.4		

R.B.G. INTERNATIONAL PVT LTD

BEST BUILDWELL (PVT.) LTD.

Head Office : 317 , IIIrd Floor , Best Arcade , Pkt, VI, Sector- 12, Dwarka, New Delhi – 110075 Ph :- 42811300, 301, 302 Fax :- 42811303

PURCHASE ORDER

BBPL-BHAGWATI/JUNE; 2018/03

M.R.NO.:- As per site Requirement To, M/s Silkon Chemicals Village Goela Tauru Nuh- 122105, Haryana GSTIN : 06ARLPT6055E3ZH

Sub:- Purchase Order of Silkon PCE 450

Dear Sir,

We are pleased to place an order of Silkon PCE 450:-

S.No.	Description	Qty. Requirement	Rate A	mount
1	Silkon PCE 450	15000 Kgs	0	1 11 1. (

Please confirm the order and deliver immediately at our Site i.e. The Bhagwati Co-op G.H. Society Ltd, Add. Plot No. 1A, Sector-22, Dwarka, New Delhi.

Terms & Conditions:-

- 1 18% GST Excluding
- 2 Payment 100% Advance
- 3 Defected Material will be replaced by M/s Silcon Chemicals.
- Billing in favour of M/s Best Buildwell (P) Ltd
 Head Office: 317, IIIrd Floor, Best Arcade, Pkt. VI, Dector-12 Dwarka, New Delhi

Thanking You,	in These
For Best Buildwell	Pitalettee
	rojects/ Purchase Manager)
Diffection G.M. II	ojects/ i urchase Manager)

(Received & Accepted) M/s Eera Constructive Solution

(Auth Signatory)





PURCHASE ORDER					
	VENDER DETAIL		0	UR DETAII	Q
то	M/S SILKON CHEMICALS	BILL TO			SHIP TO
10	M/S SILKON CHEMICALS	CLASSIC ENGINEERS		Classic Engineers at Maruti	
	VILLAGE GOELA TAURU, NUH-122105, HARYANA			Suzuki India	Ltd
	BANK DETAIL.:	MARUTI U	DYOG LTD.		
		GURGAON HRYANA		IMT Rohtak,	Haryana-124-001
Vendor Code	SILKON - 001	PO/WO No.		CE/E/2018-1	9/160575
Offer No.	BY MAIL:	PO Date		25.05.2018	
Offer Date	14-May-18	Project Cont	. Person		/lishra/Sanjay
Contact Person	Mr. Sachin Tokas	Project Con		Mit Dinesi i	ilisina sanjay
Contact No.	9810056102	Prepared By		Bhanu	
	501000010				
E-Mail ID		Email ID			assicengineers.in
Your GSTIN No.	06ARLPT6055E3ZH	Our GSTIN		06AABPT96	575R1ZL
SL. NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SILKON PCE 450	KGS	25000	2	· · · ·)
ABOVEQTY	IS TENTATIVE AND ACTUAL SHALL BE PAID AS PER SITE :	KECEIVE M.	ATERIAL		
	Amount in Words (INR): Twenty Five Lakh Seven Thousand Five			Sub Total	- 25%)
	Hundred Only		Ι	GST @ 18%	. 21.)
		Grand Total	(Round Off)		(****)
Prepared By	Auth. Signatory Bhanu Prakash Bhatt	Approved By Manoj Tyagi			(PO Acceptance)
Terms & Conditio 1 2 3 4 5 6	Payment Terms: After receipt of material at site Purchase order No. must be quoted on all correspondence Any change in the contract is valid only is is accepted by us i Other Terms and condition remain same as discussed. IGST excluding on Items 18% delivery at our above site in Rohtak		nnel & bills		



ESSEL HOUSING PROJECTS PVT. LTD.

Propos	sal Order		P.O. Number	65		
		P <u></u>	P.O. Date	03-May-2018		
Order	То	Silkon Chemicals				
		Village Goela Tauru	Delivered To	Essel Housing Pro	ojects Pvt. Ltd.	
		Nuh 122105	Address	Platinum Tower,	Main M.G. Road,	Near IFFCO
		Haryana		Chowk, Sec-29, C	Opp. Metro Pilor N	o135, City
		GSTIN : 06ARLPT6055E3ZH		Gurugram, State:	Haryana, Pin Cod	e 122002
				GSTIN: 06AAACE	6693G1ZJ	99999, 2000, 69999. S
	ct Name	Mr. Sachin Tokas	Contact Name			
Contac	ct No.	+91-9810056102				
Billing	Address	Essel Housing Projects Pvt. Ltd., Suncity State Haryana, Pin Code 122002	Business Tower, 2nd F	oor, Golf Course R	oad, Sector-54, Cit	ty Gurugram,
S.No.		Description	Unit	Rate (Rs.)	Qty.	Amount (RS)
1	Silkon I	PCE 450	Kgs.	1t)	30000	
-				-		
-						
					Total:	
				Gross Amount IGST	18%	1 10-
				Bill Amount	18%	
				Round Off		
				Net Amount		
Amour	nt in Wor	ds:				
Terms	and Con	ditions:-				
Taxes	Rates a	re exclusive of GST @ 18% on Item				
1	1 Deliver	y: Within 7-10 days after confirm order a	nd advance payment.			
	2 Above	rates are F.O.R. at site.				
3	3 Payme	nt Terms: 30% advance and balance after	prorata delivery of mat	erial at site.		
	4 Dispute	e if any subject to Haryana Jurisdiction on	ly.			
Auth	norized	Signatory	Autho	orized Signator	У	
For	Essel Ho	using Projects Pvt. Ltd.	For Ee	era Constructive S	Solution	

Regd. Office: LGF-10, Vasant Square, Plot-A, Sector-B, Pocket-V Community Centre, Vasant Kunj, New Delhi-110070 (India) CIN:U70109DL1999PTC099190 Corp Office : Suncity Business Tower, Second Floor, Golf Course Road, Sector-54 Gurgaon-122002, Haryana Phone: 0124-4691000 Fax: 0124-4691010 Email : esselcity@suncityproject.com. Wdbsite : wwwsuncityprojects.com



Lapkon 228

Plasticised expanding grout admixture

Lapkon 228 is an admixture for cementitious grouts where A reduced water/cement ratio and positive expansions are required. Applications include bed grouting, duct grouting, non-shrink infilling, post tensioning in various structure and jointing.

Product usages and advantages

- Gaseous expansion system compensates for plastic shrinkage and settlement in properly designed cementitious grout.
- Reduced water/cement ratio mixes in the grout mix ensures low permeability and long term durability in service.
- Gives grout high fluidity with low water/cement ratio, thus making placement or injection of the grout easy.
- No metallic iron content to corrode and cause staining or deterioration due to rust expansion in the grout.
- Composition allows high early strength development in grouts, without the use of chlorides.

Standards compliance

Lapkon 228 isasuitable pressure grouting admixture complying with BS: 8110 Part 1-1985, Section8.9.4.6.

Description

Lapkon 228,a plasticised expanding grout admixture is supplied as a powder. The material is a combination of a plasticising agent and a gas producing expansion medium. The plasticizing agent allows the use of a reduced water/cement ratio with consequent increased strength and durability. The expansive medium resist the natural settlement and plastic shrink- age of the grout and aids stability and cohesion.

Technical support

Silkon offers a comprehensive range of high performance, high quality concrete repair and construction products. In addition, Silkon offers technical support service to specifiers, end-users and contractors, as well as on-site technical assistance in locations all over the country.

Properties

Chloride content	:	Nil as per BS:5075 Compressive strength: The plasticising action of Lapkon 228 Allows reduction of the water cement ratios of cementitious grouts whilst maintaining flow properties. This gives improvement in strength and long term durability when cured under restraint.
SettingTimes	:	Lapkon 228 does not significantly alter the setting times of cement based grouts.
Expansion expansion in Charac grouts incorporating		
Time for expansion : hours.Temperatures		15 mintues - 2 above 25°C may slightly reduce these times.
Compatibility	:	Lapkon 228 is compatible with all types of portland cement. Lapkon may be used in mixes containing certain other Silkon admixtures. Silkon shall be contacted for further information.

Plot no.622P, Sector-38, District- Gurugram-122001 (Haryana) Contact No.124-2200622, 7011112121 Email: info@silkon.com

Page 1-3

Lapkon 228



Specification clauses

Performance specification

All grouting (specify details and areas of application) must be carried out with a cement based grout incorporating a plasticised, expanding powder admixture. The grout admixture must beiron-free and chloride-free and shall be added to the cement grout in the proportion of 228g per 50kg of cement. The grout admixture shall provide an expansion of upto 4% in the fresh grout, by means of a gaseous system. The grout admixture must be stored, handled and mixed strictly in accordance with the manufacturer's instructions.

Supplier specification

All grouting (specify details and areas of application) must be carried out using a cement based grout, incorporating Lapkon 228 manufactured by Silkon and applied strictly in accordance with the manufacturer's technical datasheet.

Application instructions

Mixing

For best results a mechanically powered grout mixer must be used. For quantities upto 50kg, a slow speed drill fitted with a high shear paddle is suitable. Large quantities will require a high volume drum mixer. It is essential that machine mixing capacity and labour availability is adequate to enable the grouting operation to be carried out continuously. This may require the use of a holding tank with provision for gentle agitation to maintain fluid- ity. The selected water content should be accurately measured into the mixer. The cement(and sand if required) shall be slowly added to Lapkon 228. Mixing shall be continued for 5 minutes, making sure that a smooth even consistency is obtained.

Application

It shall be ensured that areas to be grouted are clean,

sound, and then prewetted. The unrestrained surface area of the grout.must be kept to a minimum. The grout shall be placed within 20 minutes of mixing to gain the full benefit of the expansion process.Usual placing or pumping redures shall be adopted ensuring a continuous operation.

Curing

On completion of the grouting operation, any exposed areas which are not to be cut back should be thoroughly cured by means of water application, concurring coumpound curing membrane or wet hessian.

Limitations

Lapkon 228 is incompatible with High Alumina Cement.

Estimating

Packaging

Lapkon 228 is supplied in 228 g and 25 kg packs.

Dosages

OPC	Concreting	Water Lapkon 228	Approx.
	Sand	100	Yield
50kg	-	20-22 litres228 g	36 litres
50kg	50 kg	22-24 litres228 g	57 litres

Note : For grout, mortar or concrete mixes with an aggregate/ cement ratio more than 1, 4 x 228 g units of Lapkon 228 per 100 kg of cement, shall be used.

Effects of overdosing

Drastic overdosing of Lapkon 228 increases expansion and may cause frothing.

Storage

Shelflife

Lapkon 228 has a shelf life of 6 months if kept in a dry store in its original packing. High temperature and humidity

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Lapkon 228

Precautions

Health and Safety instructions

Lapkon 228 is of low hazard.

Contact with the skin and eyes, or inhalation of dust should be avoided. Suitable protective clothing, gloves eye/face protection and dust mask should be worn. In case of contact with skin, it shall be washed with clean water. Incase of contact with eyes, it shall be rinsed immediately with plenty of water and medical attention shall be sought immediately.

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Lapkon G5

Cementitious Free flow, high strength, nonshrink grout

Lapkon G5 is a precision grout which is essentially withstand static and dynamic loads. Typical applications would be the grouting of base plates of turbines, compressors, boiler feed pumps, Precast Building projects etc., It can also be used for anchoring a wide range of fixings. These include masts, anchor bolts and fence posts. Lapkon G5 is supplied as a ready to use dry powder. The addition of a controlled amount of clean water produces a free flowing, non-shrink grout for gap thicknesses up to 100mm. Lapkon G5 is a blend of Portland cement, graded fillers and chemical additives which impart controlled expansion in the plastic state whilst minimizing water demand. The low water demand ensures high early strength. The graded fillers are designed to assist uniform mixing and produce a consistent grout.

Product features and advantages

- Gaseous expansion system compensates for plastic shrinkage and settlement in plastic state
- No metallic iron content to cause staining.
- Pre-packed material overcomes onsite batching variations
- Develops high early strength without the use of chlorides
- High ultimate strength ensure the durability of the hardened grout
- Free flow ensures high level of contact with load bearing area

Technical Specification

Compressive strength : (BS 1881 - Part 116: 1983) Compressive strength (N/mm₂)

Age (days)	Consistency		
	Flowable (W/P 0.18)	Pourable (W/P 0.165)	
1	25	27	
3	46	52	
7	56	58	
28	67	71	

Flexural strength (BS 4551, 1998)

Flexural strength (N/mm ₂)
W/P 0.18
2.8
7.0
9.0
11

Tensile strength 3.7N/mm₂ @ 28 days (W/P - 0.18)

Time for expansion Start : 20 minutes (after mixing) Finish : 120 minutes

Fresh wet density approximately 2225kg/Cum depending on actual consistency used

Unrestrained expansion 2 - 4 % in the plastic state enables to Overcome shrinkage.

Pressure to restrain 0.004 N/mm² approx.

Consistency of grout mix

The quantity of clean water required to be added to a 25kg bag to achieve the desired consistency is given below: Pourable : 4.125 litres Flowable : 4.5 litres

The selected water content should be accurately measured into the mixer. The total content of the Lapkon G5 bag should be slowly added and continuous mixing should take place for 5 minutes. This will ensure that the grout has a smooth even consistency.

Application instructions Preparation

Foundation surface

The substrate surface must be free from oil, grease or any loosely adherent material. If the concrete surface is defective or has laitence, it must be cut back to a sound base. Bolt holes and fixing pockets must be blown clean of any dirt or debris.

Pre-soaking

Several hours prior to placing, the concrete substrates should be saturated with fresh water. Immediately before grouting takes place any free water should be removed with particular care being taken to blow out all bolt holes and pockets.

Base plate

It is essential that this is clean and free from oil, grease or scale. Air pressure relief holes should be provided to allow venting of any isolated high spots.

Lapkon G5



Mixing and placing

Mixing

For best results a mechanically powered grout mixer should be used. When quantities up to 50kg are used, a heavy duty slow speed drill (400-500 rpm) fitted with a paddle is suitable.. Larger quantities will require a heavy duty mixer. To enable the grouting operation to be carried out continuously, it is essential that sufficient mixing capacity and labor are available. The use of a grout holding tank with provision to gently agitate the grout may be required.

Placing

At 30^oC place the grout within 20 minutes of mixing to gain full benefit of the expansion process. Lapkon G5 can be placed in thicknesses up to 100mm in a single pour when used as an under plate grout. For thicker sections it is necessary to fill out Lapkon G5 with well graded silt free aggregate to minimise heat build up. Typically a 10mm aggregate is suitable. 50 - 100% aggregate by weight of Lapkon G5 can be added.

Curing

On completion of the grouting operation, exposed areas should be thoroughly cured. This should be done by the use of Silkon WB40 curing membrane, continuous application of water and/or wet hessian.

Limitations

Low temperature working

When the air or contact surface temperatures are 10_{\circ} C or below on a falling thermometer, warm water ($30 - 40_{\circ}$ C) is recommended to accelerate strength development. For ambient temperature below 10_{\circ} C the formwork should be kept in place for at least 36 hours.

Normal precautions for winter working with cementitious materials should then be adopted. High temperature working At ambient temperatures above 40°C, cool water (below 20°C) should be used for mixing the grout prior to placement.

Packaging

Lapkon G5 is supplied in 25 kg moisture resistant bags.

Yield

Allowance should be made for wastage when estimating quantities required. The approximate yield per 25 kg bag for different

consistency is :		
Consistency	Pourable	Flowable
Yield (litres)	12.5	13.3

Storage

Shelf life

Lapkon G5 has a shelf life of 6 months if kept in a dry store in sealed bags. If stored in high temperature and high humidity locations, the shelf life may be reduced.

Precautions

Health and Safety instructions

Lapkon G5 is alkaline and should not come into contact with skin and eyes. Inhalation of dust during mixing should be avoided. Gloves, goggles and dust mask should be worn. If contact with skin occurs, it shall be washed with water. Splashes to eyes should be washed immediately with plenty of clean water and medical advice sought.

Fire

Lapkon G5 is non flammable.

Additional information

For further details about the use and selection of grouts refer to the Silkon Information module entitled 'Precision grouting in the Construction industry'.

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Silkon RB95

Silkon RB95 spray applied membrane to retain moisture in concrete for effective curing. Suitable for all general concreting applications and of particular benefit for large area concrete surfaces, such as airport runways, roads and bridgeworks. The curing compound is used for the curing of Pavement Concrete

Product usages and advantages:

- Improved curing of concrete enhances cement hydration and provides a more durable concrete
- Control of moisture loss improves surface quality, reducing permeability, producing a hard-wearing, dust free surface and minimising potential for surface cracking and shrinkage
- · Light reflective grades minimise solar temperature gain
- Spray application reduces labour costs and eliminates the need for alternative curing systems.

Description

Silkon RB95 is a concrete curing compound is polymer based continuous film forming curing compound and is supplied as aluminised polymeric resin solution drying to a silver film on application.

Specific Gravity: 0.81 - 0.83

When first applied to a fresh cementitious surface the product forms a continuous, non-penetrating coating. This coating dries to a form a continuous film which provides a barrier to moisture loss ensuring more efficient cement hydration, improved durability and reduced shrinkage. The aluminised grades contain aluminium flakes to meet specifications for reduction of solar temperature gain.

Technical support

Silkon provides a technical advisory service supported by a team of specialists in the field.

Standards compliance

Silkon RB95 has been tested in accordance with ASTM C309-81 for curing efficiency.

Application

Silkon RB95 should be stirred before use to ensure dispersion of settled material.

Silkon RB95 should be spray applied to the surface of fresh concrete. Application should begin as soon as the concrete is free from surface water. Do not apply if bleed water is forming or present on the concrete surface. The spray nozzle should be held approximately 450mm from the concrete surface and passed back and forth to ensure complete coverage. Pump pressure should be maintained to give an even, fine spray. After spraying, no further application of water or other material is necessary to ensure continued curing. The concrete surface should not be disturbed until it has sufficient strength to bear surface loads. The applied film should not be walked on before it is fully dry and care should be taken to ensure that the film is not broken. Silkon RB95 may also be applied to the surface of newly hardened concrete immediately after demoulding. In such cases the concrete surface should be sprayed with water to saturate it prior to the application of Silkon RB95. Dry surfaces may prevent correct film formation and cause absorption of the Silkon RB95 which may lead to staining and difficulty in later removal.

Coverage rate

The recommended coverage rate is between 3.5 and 5.0 sq.m / litre (0.200 to 0.285 litres/sq.m). Coverage rates outside this recommended range may be used if necessary and suitable to meet specific requirements. Contact local Silkon office for advice in such cases.

Packaging

Silkon RB95 is supplied in 50 and 235 ltrs containers.

Storage

Silkon RB95 has a minimum shelf life of 6 months, when stored in the original unopened containers under normal warehouse conditions.



Silkon RB95

Health and Safety

Silkon RB95 should not be swallowed or allowed to come into contact with skin and eyes. Avoid inhalation of vapours and ensure adequate ventilation.

Suitable protective gloves and goggles should be worn. Some people are sensitive to resins and solvents. Resin Barrier creams provide additional skin protection.

Should accidental skin contact occur, remove immediately with a resin removing cream followed by washing with soap and water - do not use solvent.

Incase of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting.

Fire

Silkon RB95 is flammable. Do not expose to naked flames or other sources of ignition.

Flash point: 40⁰C



Silfloor FH

Non metallic, High abrasive resistant surface hardening cementitious floor

hardner

Silfloor FH provide a highly abrasion resistant surface to concrete floors by the dry shake-on method which ensures that the hardwearing surface bonds monolithically to the base concrete. They are ideally suited for all industrial areas subject to the heaviest traffic, e.g. loading bays, trucking lanes, car parks, workshops, machine shops, ramps and spillways.

Product usages and advantages

- Non metallic does not rust or stain.
- Provides a hard, abrasion resistant surface
- Forms monolithic bond with base concrete

Easy and economical to apply

Standards compliance

Abrasion resistance (IS : 1237-1980) Silfloor FH has been tested as per IS:1237 - 1980 against control concrete for abrasion resistance.

Test results showed that Silfloor FH improves the abrasion resistance of concrete by 225% when tested as per guidelines in IS:1237 - 1980.6.

Description

Silfloor FH is quality controlled, factory blended powder which are ready to use on site. They contain special hardwearing aggregates which have been selected for abrasion and wear resistant properties as well as shape and size. These latter considerations, together with the use of high performance workability admixtures, produce a material which is easy to trowel into the surface of fresh, wet concrete. Silfloor FH cure monolithically to provide a dense, non-porous surface which is extremely hardwearing and abrasion resistant. Monolithic cure ensures that problems normally associated with thin 'granolithic' screeds, viz., shrinkage, cracking, etc., are completely overcome.

Being non-metallic, Silfloor FH provide a non-slip surface which will never rust and disintegrate.

All concrete floors shall be surfaced or broadcast with Silfloor FH a non-metallic monolithic surface floor hardening compounds containing rust free, hardwearing aggregates. The aggregates shall have a Moh's hardness of not less than 10 for Silfloor FH.

Technical support

Silkon offers a comprehensive range of high performance, high quality concrete flooring construction products. In addition, Silkon offers technical support service to specifiers, end-users and contractors, as well as on-site technical assistance in locations all over the country.

Properties

Compressive strength

Silfloor FH shall possess a minimum compressive strength of $60N/mm_2$. when tested as per IS: 516-1959.

Application instructions

Base concrete

The base concrete should have a minimum cement content of 300 kg/m_3 . The concrete mix should be designed to minimise segregation and bleeding. The concrete should have a slump of between 75 and 100 mm. Use of Silkon's water reducing admixture is recommended. The base concrete should be laid and compacted in accordance with good concrete practice. Accurate finished profile and minimum laitance build-up should be ensured. Particular attention should be paid to bay edges and corners to ensure full compaction.

Silfloor FH is applied for different types of industrial use.

Application	Intended Trafic Use	Average Wear
rate (kg/m ₂)		(IS:1237-1980)
6.5	Heavy	<2mm
4.5	Medium	>2 <3.5mm
3.0	Light	>3.5 <4mm

It is recommended that the floor be marked off into bays of known area. Sufficient material should then be laid out to meet the required spread rates.

Application of Silfloor FH can begin when the base concrete has stiffened to the point when light foot traffic leaves an imprint of about 3mm. Any bleed water should by now have evaporated.

Silfloor FH is applied in two stages.

(a) The first application is made using 50% to 70% of the total material. Silfloor FH is evenly broadcast onto the concrete surface. When the material becomes uniformly dark by the absorption of moisture from the concrete this first application can be floated. Wooden floats or, on large areas, the power trowel with disc may be used. It is important, however, that the surface is not over worked.

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Silfloor FH

(b) Immediately after floating, the remaining Silfloor FH is sprinkled evenly over the surface. Again moisture is absorbed and the surface can be floated in the same way as before. Final finishing of the floor using a power trowel can be carried out when the floor has stiffened sufficiently so that damage will not be caused.

Timing of Application

The timing of application Silfloor FH is important and critical. If applied too early, bleed or excess water will wash away the cementitious content of the products, thereby making them ineffective. Also denser aggregates sink into the concrete. If the application of Silfloor FH is done too late, there will not be sufficient water/moisture to absorb the material into the concrete. Material forcibly applied and trowelled thus, will cause cracks on the surface later, as there is no water/moisture to hydrate the product.

Curing

Tests have shown that proper curing of concrete floors treated with products such as Silfloor FH is essential to ensure the physical properties of the floor.

The most efficient method of curing by using Silkon WB40, curing membrane which conforms to ASTM and DOE specifications.

However, in indoor applications where curing conditions are less arduous and breakdown of the membrane slower, alternative approved methods of curing such as polythene sheeting or water ponding are acceptable.

Limitations

• For concretes with optimised water cement ratios, Silfloor FH shall not be broadcast in excess of 3 - 4 kg /m₂. For such applications, consult Silkon Technical Team.

• Silfloor FH is not advised for broadcast over concrete in subzero temperatures, such as, floorings for cold storages etc. However, concrete on which Silfloor FH has been applied can be subjected to sub zero temperatures after curing.



Packaging

Silfloor FH is supplied in sealed 25 kg HDPE bags.

Storage

If kept in original undamaged packing, the shelf life of Silfloor FH should be atleast 12 months under normal warehouse conditions.

Precautions

Health & Safety instructions

Silfloor FH contains portland cement and are therefore alkaline when in contact with water. Prolonged contact with the skin should be avoided. Any eye contamination should be washed immediately with plenty of clean water and medical advice sought.

Fire

Silfloor FH is not flammable.



Silkon Micro Silica

Silkon Micro Silica is a super pozzolan - a finely powdered material, containing amorphous (reactive) silica, when added to wet concrete mix, it results in better quality and durability and it gives higher strength. It complies with **ASTM C1240 & IS 15388**.

Usages and Advantage

- Higher compressive strength by 10-25 %
- Reduces the rate of carbonation increases the durability
- Lower permeability resistance to penetration of water, chloride & other chemicals
- Lower free lime formation delays ettringite and thaumasite formation
- Controls bleeding in fresh concrete
- Lower Heat of Hydration, which prevents formation of cracks.

PROPERTIES

Appearance Colour Odour Mean Particle Size Retention of 325 mesh SiO2 – Silica Humidity Loss on Ignition at 800°C Very Fine Powder Dark Grey Odourless 25 microns Below 5% (w/w) 92 % minimum 1 % maximum 4 % maximum

Standard Compliance

It complies with ASTM C1240 & IS 15388.

Technical support

Silkon provides a technical advisory service for on-site assistance and advice on mix design, admixture selection, evaluation trials and dispensing equipment.

Dosage

The optimum dosage of Silkon Micro Silica to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use. The normal dosage range is between 5 to 10 Kgs/100 kg of cementitious material.

Over dosages

Dosage outside the normal range quoted above can be used to meet particular mix requirements. Over dosage may cause stickiness in fresh concrete. Contact Silkon for advice in these cases

Packaging

Silkon Micro Silica is available in 25kg Bags.

Storage

SIlkon Micro Silica has a minimum shelf life of 12 months provided the temperature is kept within the range of 2^{0} C to 50^{0} C protected from sunlight. If the temperature of the product falls outside this range then contact local Silkon office for advice.

HOW IT WORKS

1. Pozzolonic Effect : When water is added to cement, hydration occurs as shown below: Ordinary Portland Cement (OPC) + H2O \rightarrow CSH (Calcium silicate hydrate) + Ca(OH)2(Free lime) The free lime does not contribute to strength of concrete. When combined with carbon dioxide, it forms a soluble salt, which leaches through the concrete causing efflorescence and wear & tear of concrete, a familiar problem. This makes the concrete more vulnerable to chemical attack and deterioration. When CETEX Micro Silica is added, the following reaction takes place:

 $Ca(OH)_2 + SiO_2 \rightarrow H_2O + CSH$

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Silkon Micro Silica

This reaction reduces the amount of calcium hydroxide (free lime) in the concrete.

2. Micro Filler Effect: It is an extremely fine material, with an average diameter much finer than the cement. It gets well distributed in the wet concrete paste, thus blocking the bleed-water channels. It also results in better compaction and thereby higher strength.

Health and safety instructions

Silkon Micro Silica does not fall into the hazard classifications of current regulations. However, it should not be swallowed or allowed to come into contact with skin and eyes. Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting. For further information consult the Material Safety Data sheet available for this product.

Fire

Silkon Micro Silica is non-flammable.

Cleaning and disposal

Spillages of Silkon Micro Silica should be absorbed onto sand, earth or vermiculite and transferred to suitable containers. Remnants or vermiculite and transferred to suitable containers. Remnants should be hosed down with large quantities of water. The disposal of excess or waste material should be carried out in accordance with local legislation under the guidance of the local waste regulatory authority

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Silkon WB 40



Silkon WB 40 is a solution of special pigmented wax emulsion formulated for application to freshly-placed concrete. It dries to form impervious film on the surface. It ensures that the concrete keeps as moist as possible during the vital curing period. Efficient curing is particularly important in exposed situations such as concrete roads and run ways etc., where the surface is subjected to the drying action of heat, direct sunlight or wind. Traditional curing methods using wet hessian, straw, sand or polythene sheeting are never completely efficient as it is not possible to exclude air entirely from the face of the concrete. Silkon WB 40 curing compound membrane replaces these older methods, by virtue of its easy application, higher efficiency and saving in labor and material costs.

Product usages and advantages

- Give water repellent film.
- Reduces surface temperature and crack formation.
- Prevent early water evaporation.
- Economical and easy to use.
- Reflects more ultraviolet rays.
- Non-Toxic and non-Flammable.
- Eliminates use of water curing, hessian or sand.

Description

Silkon WB 40 is based on white liquid low viscosity, wax emulsion and white pigments. Concrete curing compound for fresh concrete, screeds, floors and verticals surfaces. Complies to ASTMC-309-74.

Purpose

To protect concrete against excessive drying out by Retaining the moisture and water in fresh concrete.

Packing

200 LTR HDPE Barrels.

Where to Use

- For efficient and positive curing of:
- Bridge, dams, airport, runways, reservoirs.
- Road, external floors canal linings.
- Retaining vast floorings and rendering highways.
- Roof decks and shell roofs. Pre stressed beams and piers.

Technical data

- Appearance: White Liquid
- Specific Gravity: 0.99 1.020
- Dry Film: translucent
- Application Temperature: Min. 5⁰ C

Application

Stir well before use. After application the area concerned must be protected from rain for at least 2-3 hours.

Storage

Silkon WB 40 has a storage life of maximum 6 months in unopened drums, protect from of direct sunlight.

Handling Precaution

Silkon WB 40 is water based non-hazardous, non toxic. Avoid contact with skin and eyes.

Coverage

Silkon WB 40 has coverage of 4 to 6 m²/ liter.



Silplast PMF100

Silplast PMF100 is Shrinkage compensated, fibre reinforced, single component, polymer modified, cementitious, repair mortar system is used for the reinstatement of concrete in small localized patch repairs. Silplast PMF100 is alkaline in nature and will protect embedded steel reinforcement. It is specially designed for location where high compressive strengths are required. The mortar is suitable where superior resistance is required to chlorides and carbon dioxide. Silplast PMF100 is a Dual Shrinkage expansion, fibre reinforced, single component, polymer modified, cementitious, repair mortar system supplied as a ready to use blend of dry powders, which requires only the addition of clean water to produce a highly consistent, repair mortar suitable for structural concrete and masonry repairs. Siplplast PMF100 may be hand & trowel applied, please see application method statement for details.

Usages And Advantages

- · Vertical and overhead repairs to restore 'cover concrete'
- · General concrete and masonry repairs
- · Voids greater than 10 mm deep
- · Repairs to honeycombing
- · Larger scale repairs where formwork cannot be erected
- The dimensions of the repair remain stable; and thus eliminating failure, due to shrinkage cracking.
- · This in turn leads to a series of associated benefits :
- Cost effective shrinkage control enables repairs to be completed 'right first time'
- Enhanced durability works in tandem with extremely low permeability to prolong effective working life
- Compatibility aligns performance closer than ever before, to that of host concrete
- User friendly specifically developed to provide an easy to apply product suitable for local conditions
- Definable performance positive benefits are easily demonstrated via a single, simple measurement

Technical support

Silkon offers a technical support package to specifiers, end users and contractors as well as on-site technical assistance in locations all over the country.

Technical Properties

These results were obtained at Water: Powder ratio of 0.16 and temperature @ 30° C under controlled laboratory conditions.

Compressive strength	7 Days 28 Days	52 N/mm ² 72 N/mm ²
Flexural strength	28 days	>10 N/mm ²
Percentage water absorption	< 2%	
Rapid chloride permeability	<1800 Cou	ulombs
Tensile Strength	28 days	> 4 N/mm ²
Permeability	< 6 mm	
Drying Shrinkage		350 Microstrain 500 Microstrain

Recommended limits for a single application are:

Minimum applied thickness	: 10 mm
Overhead sections	: up to 10 mm thick
Vertical sections	: up to 12 mm thick
Small pockets or horizontal	: up to 100 mm thick

Application Methodology Surface preparation

Saw cut or cut back the extremities of the repair locations to a depth of at least 10mm to avoid feather edging and to provide a square edge. Break out the complete repair area to a minimum depth of 10mm up to the saw edge. Clean the surface and remove any dust, unsound or contaminated material, plaster, oil, paint, grease, corrosion deposits or algae. Where breaking out is not required, roughen the surface and remove any laitance by light scrabbling or grit sand blasting. Oil and grease deposits should be removed by steam cleaning, detergent scrubbing or the use of a proprietary degreaser. The effectiveness of decontamination should then be assessed by a pull off test. For vertical renders the concrete substrate should have surface profile of min 500 microns.

Zink Rich Primer Coat

It is likely that, steel reinforcement in the area around a patch repair, particularly in a chloride contaminated environment, will typically corrode after the repairs are carried out, referred to as the incipient anode or Halo effect.

Silkon zink primer, two component, zinc rich epoxy based anti-corrosive protective coating should be brush applied over the prepared & dry surface of the exposed rebars and allowed to completely dry prior to application of Silplast PMF100 repair mortar.

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Silplast PMF100



Priming

Mix the base and hardener components of Superbond BA, two component epoxy bonding agent with a paddle mixer for 3-5 minutes and brush apply in a thin layer over the prepared old concrete substrate to be repaired and allow the epoxy bonding agent to become tacky. Tacky condition will exist from 1-2 hours @ 30° C from the application time.

Mixing

Silplast PMF100 repair mortar shall be prepared by adding & mixing the 25 kg dry powder and recommended water of 4 litres (w/p = 0.16) into a plastic container of suitable size using a paddle mixer for 3 - 5 minutes until it attains a trowellable consistency. The mixed mortar should be applied to the prepared concrete surface or to the tacky Superbond applied surface . Superbond BA applied surface will attain tacky condition from 1-2 hours @ 30^{0} C from the application time.

Note :

- Do not apply Silplast PMF100 repair mortar over tack free or pre-tacky condition of Superbond BA since it acts as a debonding agent.
- Under no circumstances part mixing or additional is not allowed. Either of these two actions will adversely affect material performance.

Packaging

Silplast PMF100 : 25 Kg Bags

Yield

Id

Cautions:

- Silplats PMF100 should not be used when the ambient temperature is below 5°C and falling.
- Silplast PMF100 should not be part mixed, nor part bags used.

: 13.5 Liters

 Silplast PMF100 should not exposed to running water either during application or prior to final setting time of mortar.

Shelf Life

Silplast PMF100 has a shelf life of 6 months if kept in a dry store in the original, unopened bags or packs

Health and Safety

Silplast PMF100 contains cement powders which, when mixed with water or upon becoming damp, release alkalis which can be harmful to the skin. During use, avoid inhalation of the dust and contact with the skin or eyes. Wear suitable protective clothing - eye protection, gloves and respiratory equipment (particularly in confined spaces). The use of barrier creams to provide additional skin protection is also advised. In case of contact with the skin, rinse with plenty of clean water, then cleanse thoroughly with soap and water. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed seek medical attention immediately - do **not** induce vomiting.

Fire

Silplast PMF100 is non flammable



Silplast R15

Silplast R15 is general purpose, non-shrink, cementitious micro concrete which is used for repairs to damaged reinforced concrete elements, particularly where access is restricted and where vibration of the placed material is difficult or impossible. It is suitable for various structural strengthening measures such as encasement build-ups, jacketing, piletop encapsulation resin system, etc.

Silplast R15 is supplied as a ready to use blend of dry powders which requires only the site addition of clean water to produce a free flowing non-shrink repair micro concrete. The material is based on Portland cements, graded aggregates and fi llers, and additives which impart controlled expansion characteristics in the plastic state, while minimising water demand. The low water requirement ensures high early strength and long-term durability. For larger repairs, the mixed Silplast R15 may be modified by the addition of 5mm to 12mm clean, graded, saturated surface dry aggregates at site in ratio of 50-100 %. can be applied in sections up to 100mm deep. For larger sections, the addition of approved aggregates may be required. This will depend on the specific configuration of the repair location For exceptionally large repairs contact with Silkon technical team.

Usages and Advantages

- Gaseous expansion system compensates for shrinkage and settlement in the plastic state.
- · Can be pumped or poured into restricted locations.
- · Highly fluid to allow for placement without vibration.
- · Pre-packed to overcome site-batched variations.
- Rapid strength gain to facilitate early reinstatement.
- High ultimate strengths and low permeability of cured repair.
- · Contains no chloride admixture.
- · Ensures piletop integrity as part of a waterproofing system

Technical support

Silkon offers a technical support package to specifiers, end users and contractors as well as technical on-site assistance in locations all over the country.

Properties

These result are obtained at a water:Powder ratio of $0.16 @ 30^{\circ}$ C under controlled laboratory conditions.

Test Typical result at 30 ^o C Compressive strength (N/mm ²) (Tested on 70.7mm cubes as per BS 4551-80)			
1D 11	3D 32	7D 42	28D 53
Tensile strength		2.0N/mm ² @ 28 c	lays
Flexural strength (BS4551 - 80)		5N/mm ² @ 28 da	ys
Young's Modulus	i	25 kN/mm ²	
Expansion charac Unrestrained exp (ASTM C827 - 19	ansion	1 to 4%.	
Pressure to restra Plastic expansior		0.004N/mm ²	
Coefficient of the expansion	rmal	10 - 12 x 10 ⁻⁶ / c	C.
Thermal conducti	vity	1.5 W/mºC	
Fresh wet density (Mixed density @		2100 - 2200 k	g/m³

Application Methodology

The fluid micro-concrete repair material shall be a single component, cement based, micro-concrete to which only the site-addition of clean water (and approved graded coarse aggregates where specified) shall be permitted. The micro concrete shall contain no metallic aggregates, or chlorides and shall be shrinkage compensated in the plastic state. The micro concrete in the flowable consistency should achieve a compressive strength of not less than 11N/mm2 after 24 hours, 42N/ mm² after 7 days and 52 N/mm² after 28 day s at 30°C. Most importantly, the cured microconcrete shall contain no metallic aggregates, or chlorides and shall be shrinkage compensated in the plastic state. The unrestrained expansion shall be between 1 - 4%. The flexural strength shall not be less than 5 N/mm² @ 28 days. The microconcrete shall have a coeffi cient of thermal expansion similar to that of the host concrete. The mixed density of microconcrete shall exceed 2100 kg/m³ at 27⁰C.

Silplast R15



Preparation

The unrestrained surface area of the repair must be kept to a minimum. The formwork should include drainage outlets for pre-soaking and, if beneath a soffit, provision for air venting. Provision must also be made for suitable access points to pour or pump the mixed micro-concrete in place.

Defective concrete surfaces must be cut back to a sound base. Smooth surfaces should be mechanically roughened. Corroded reinforcing steel should be exposed around its full circumference and cleaned to remove all loose scale and corrosion deposits. It is important to clean the steel to a bright condition. Grit-blasting is recommended.

One coat of Zinkrich Primer should be applied on the reinforcing steel. If any discontinuity in the applied fi Im is noticed, one more coat has to be applied.

Several hours prior to placing, the concrete substrates should be saturated with clean water. Immediately prior to placing, any free water should be removed.

Alternatively, all prepared concrete substrates should be primed using Silbond BA, a slow - setting epoxy bond aid. Silbond BA be applied only on dry substrate.

Cautions

For repair sections generally deeper than 100mm it may be necessary to mix the Silplast R15 with properly graded 5mm to 12mm silt-free aggregate to minimise temperature rise. The quantity of aggregate required may vary depending on the nature and configuration of the repair location. The typical results with a few aggregate proportions, for various applications are furnished below for guidelines.

These results are obtained with using graded aggregate (SSD) under controlled laboratory conditions

W/P Ratio		:	1 : 0.75 (By weight)	
Water: Powder ra	atio	:	0.16 (By weight)	
Compressive stre 1 D 16	ength (N/r 3 D 38	nm²	²) 7 D 48	28D 58
Workability		:	Flowable	

Note : W/P shall not be increased under any circumstances.

Packaging

Silplast R15 is supplied in 25 kg moisture resistant bags.

Yield

Approximately 13.0 litres per 25 kg bag. Actual yield per bag will depend on the consistency of Silplast R15 and quantity of coarse aggregate added.

Shelf Life

6 months if kept in a dry store in the original, unopened bags. If stored at high temperatures and/or high humidity conditions the shelf life may be reduced.

Health & Safety

Silplast R15 contains cement powders which, during normal use, have no harmful effect on dry skin. However, when Silplast R15 is mixed, or becomes damp, alkali is released which can be harmful to the skin. During use, avoid inhalation of dust and contact with skin and eyes. Suitable gloves, eye protection and dust masks shall be worn. The use of barrier creams is recommended. In case of contact with skin, it shall be washed with clean water. In case of contact with eyes, it shall be rinsed immediately with plenty of clean water and medical advice shall be sought. If swallowed, medical attention shall be sought immediately - Vomiting should not be induced.

Fire

Silplast R15 is non-flammable.



Silproof EC

Silproof EC is a two component acrylic polymer modified cementitious coating which consists of liquid acrylic emulsion. It requires only the addition of clean water at site to produce an easily brushable coating. It is a high performance elastomeric cementitious waterproof coating to protect atmospherically exposed reinforced concrete structures from attack by acid gases, chloride ions, oxygen & water. The product can be used on concrete, brick and block work substrates and is equally suitable for new and existing structures. The product is designed to reface and even out variations in concrete and masonry surfaces and bridge shrinkage cracks. It provides a seamless, flexible waterproof coating suitable for water tanks, reservoirs, drainage culverts basements, roofs, toilets & wet areas. The product provides a tough durable water resistant coating which can withstand light pedestrian traffic and also has excellent weather resistance for exterior applications.

Product usages and advantages

- Approved for use in contact with potable water.
- Withstands high positive and negative hydrostatic pressures
- Excellent crack accommodation after immersion.
- Excellent bond to concrete and masonry.
- Long working life.
- Easy application by brush, roller, trowel or spray.
- Bonds to green or damp concrete.
- Effective barrier to sulphates and chlorides.

Standards compliance

Silproof EC meets the requirements of BS 6920, WRAS. approved for use in contact with potable water up to 50°C. DIN 1048 : Water Penetration Test.

Technical support

Silkon offers technical support service to specifiers, end users and contractors, as well as on-site technical support in locations all over the country.

Properties

Pot life Mixed density	:60 min @ 35 ⁰ C :1.95g/cc (brushable
Color Application temp.	consistency) : Grey : Not less than 10 ⁰ C
Adhesion to concrete Toxicity	: >1.5N/mm ₂ : Non-toxic
Water resistant positive side (DIN1048)	: 5 Bar
Water resistant positive side (ITM/FTM-181)	: 2 Bar
Static crack accommodation	: 1mm

Application

Surface Preparation

All surfaces which are to receive the coating, must be free from oil, laitance, grease, wax, dirt or any other form of foreign matter which could affect adhesion. Typically, concrete surfaces can be cleaned using a high pressure water jet. Spalled surfaces or those containing large blowholes, and other such defects, should be repaired using Silproof EC or a Silkon approved repair mortar. Care must be taken when choosing the repair mortar to ensure that it has all necessary approvals for contact with potable water. If the surface contains small blowholes, typically less than 1 mm wide, the coating can be applied directly onto the substrate without the need for a treatment. Cracks which are less than 0.3 mm in width can be over-coated as long as the crack is not likely to open up to greater than 0.3 mm (this is greater than the maximum permissible cracks widths recommended in BS8007:1987, the British Standard Code of Practice for the design of concrete structures for retaining aqueous liquids). Cracks which are greater than 0.3 mm in width should be chased out to 4 mm in width and approximately 15 mm in depth. This should be filled with Silproof EC (applied using a Silkon 'G' Gun). When the material in the crack has hardened the coating should be applied over the crack

Silproof EC



Mixing

The liquid polymer (5.0 kg) is poured from the plastic container into a plastic or metal drum having a volume of at least 25 litres. To this, the powder is gradually added (18 kg) whilst mixing with an approved spiral paddle attachment on a slow speed drill. Mixing is continued until a lump free slurry is obtained. This should take a minimum of 3 minutes and a maximum of 5 minutes.

Note: the preferred drill speed is between 280 to 640 rpm

Pre-wetting of the substrate

Thoroughly dampen the substrate surface with water using a brush roller or spray bottle. High porosity substrates will require more dampening than dense substrates. Do not apply the coating when the substrate is wet, but allow the water to soak in until the substrate is just visibly damp prior to proceeding. Any excess water should be removed using a sponge. Any running water should be stopped with a suitable plugging mortar such as Fast Setting Mortar. Contact the local Silkon office for further advice on other suitable water stopping materials. For optimum use of the product, Silproof EC white should be applied as the first coat, with Silproof EC grey as the second coat. This gives a visual indication of coverage. The first coat should be applied at a wet film thickness of 1 mm (approximate coverage per coat is 1.8 kg/m2 or 1 litre/ m2). To ensure the correct thickness is achieved measure out an area (for example 200 m2) then calculate how much material will be needed to cover this area. Monitor the coating thickness during application at regular intervals using a wet film gauge. Care must be taken to attempt to fill all imperfections such as blow holes during the application. If not, they can be filled while the coating is still fluid by using a dry sponge. If the coating has dried before these imperfections are found they can be filled using fresh material. All the mixed material should be used within one hour of mixing. Allow the first coat to cure for a minimum of 4 hours at 20_°C per 50% RH and longer at lower temperatures or higher humidity's. The exact drying time will depend on surface temperature, relative humidity and air movement. High temperatures and/ or low humidity will reduce the drying time. This can vary from 1 to 16 hours. The first coat should be left to dry until firm and un makeable to the touch. There is no maximum time between coats, however the surface may need cleaning with water prior to the application of the second coat to remove potential contamination. The second coat should also be applied at a wet film thickness of 1 mm. Predampening of the surface is not necessary prior to applying the second coat. No curing membrane is necessary, however the freshly applied coating should be protected from rain and strong wind or until firm to the touch to prevent damage to the wet coating.

Brush application

The most suitable type of brush is a soft bristled wallpaper paste brush (120 to 220 mm wide). Where larger areas are to be applied it is advisable to use a brush with a handle. Load the brush up well and spread the material to the required thickness.

If the brush begins to drag during application, do not add water to the material, but dampen the surface again. Finish in one direction for a neat appearance. For floor application, a soft bristled broom is recommended. Pour the material on to the substrate and then spread to the required thickness.

Estimating

Supply	
Powder component	: 20 kg bag
(grey or white)	
Liquid polymer component	: 5.5kg plastic container
Coverage	
Coverage rate at 1mm	: 14m₂per 25.5kg pack

Health and safety

Silproof EC powder is irritating to the eyes, respiratory system and skin. Avoid inhalation of dust and wear suitable respiratory protective equipment. Silproof EC liquid is not classified as dangerous. Silproof EC when mixed becomes highly alkaline. Wear suitable protective clothing, gloves and eye protection. For both components and for the material when mixed avoid contact with eyes or skin rinse immediately with plenty of water and seek medical advice.

Storage

Shelf life is 6 months in unopened packs. The liquid component must not be allowed to freeze.



Supermix PC 350 is a advance low viscosity high performance super plasticizer, based on Polycarboxylic technology which is intended for applications where high water reduction and long workability retention are required

Supermix PC 350 is a unique combination of the latest generation super plasticiser, based on PCE Based technology with long lateral chain. This greatly improves cement dispersion. At the start of mixing process a steric hindrance dispersion occurs and cement particles start dispersing. This mechanism considerably reduces water demand in flowable concrete.

Usages and Advantage

- Pumped concrete,
- · Concrete requiring long workability retention,
- Low viscosity suitable for pumping of different grades of concrete to higher floors
- Improved adhesion to reinforcing and prestressing steel
- Better resistance to carbonation
- Lower permeability
- Better resistance to aggressive atmospheric conditions
- Reduced shrinkage and creep
- Increased durability

Standard Compliance

Supremix PC 350 complies with IS:9103-1999(2007). It also complies with ASTM C494 Type G depending on the dosage used.

Technical support

Silkon provides a technical advisory service for on-site assistance and advice on mix design, admixture selection, evaluation trials and dispensing equipment.

Properties

Appearance	:	Light yellow colored liquid
рН	•	Minimum 6.0
Volumetric mass @ 20 ⁰ C	:	1.07 kg/litre
Chloride content	:	Nil to IS:456

Dosage

The optimum dosage of Supremix PC350 to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use. The normal dosage range is between 0.5 to 3.0 ltrs/100 kg of cementitious material.

Over dosages

Dosage outside the normal range quoted above can be used to meet particular mix requirements. Over dosage may cause delay in the setting time and segregation. Contact Silkon for advice in these cases

Packaging

Supremix PC350 is available in 200kg and 250kg drums and bulk tanker.

Storage

SupremixPC 350 has a minimum shelf life of 12 months provided the temperature is kept within the range of 2^{0} C to 50^{0} C. Should the temperature of the product fall outside this range then contact local Silkon office for advice.

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Health and safety instructions

Supremix PC350 does not fall into the hazard classifications of current regulations. However, it should not be swallowed or allowed to come into contact with skin and eyes. Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting. For further information consult the Material Safety Data sheet available for this product.

Fire

Supremix PC350 is water based and non-flammable.

Cleaning and disposal

Spillages of Supremix PC350 should be absorbed onto sand, earth or vermiculite and transferred to suitable containers. Remnants or vermiculite and transferred to suitable containers. Remnants should be hosed down with large quantities of water. The disposal of excess or waste material should be carried out in accordance with local legislation under the guidance of the local waste regulatory authority

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Supremix PC450 is an Advanced Low Viscosity High Performance Super-plasticiser, based on Polycarboxylic technology this is an unique combination of the latest generation superplasticisers, based on a polycarboxylic ether polymer with long lateral chains VMA and Rheology modifier inbuilt, This greatly improves cement dispersion. At the start of the mixing process an electrostatic dispersion occurs but the cement particle's capacity to separate and disperse. This mechanism considerably reduces the water demand in flowable concrete. Supremix PC 450 combines the properties of water reduction and workability retention. It allows the production of high performance concrete and/or concrete with high workability.

Uses & Advantages

Supremix PC 450 is a high performance superplasticiser intended for applications where high water reduction and long workability retention are required, and it has been developed for use in:

- Self-compacting concrete,
- Pumped concrete,
- Concrete requiring long workability retention,
- High performance concrete.
- Low viscosity suitable for pumping of different grades of concrete to higher floors
- Higher E modulus
- Improved adhesion to reinforcing and prestressing steel
- Better resistance to carbonation
- Lower permeability
- Better resistance to aggressive atmospheric conditions
- Reduced shrinkage and creep
- Increased durability

Standard Compliance

Supremix PC450 complies with IS:9103-1999(2007). It also complies with ASTM C494 Type G depending on the dosage used

Technical support

Silkon provides a technical advisory service for on-site assistance and advice on mix design, admixture selection, evaluation trials and dispensing equipment.

Properties

Appearance	:	Light yellow colour liquid
pН	•••	Minimum 6.0
Volumetric mass @ 20 ⁰ C		1.08 kg/litre
Chloride content	:	Nil to IS:456

Dosage

The optimum dosage of Supremix PC450 to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use. The normal dosage range is between 0.5 to 3.0 ltrs/100 kg of cementitious material.

Effects of overdosing

Dosage outside the normal range quoted above can be used to meet particular mix requirements. Overdosage may cause delay in the setting time and segregation. Contact Silkon for advice in these cases

Packaging

Supremix PC450 is available in 200kg and 250kg drums and bulk tanker.

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Storage

Supremix PC 450has a minimum shelf life of 12 months provided the temperature is kept within the range of 2^{0} C to 50^{0} C. Should the temperature of the product fall outside this range then contact local Silkon office for advice.

Health and safety instructions

Supremix PC450 does not fall into the hazard classifications of current regulations. However, it should not be swallowed or allowed to come into contact with skin and eyes. Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting. For further information consult the Material Safety Data sheet available for this product.

Fire

Supremix PC 450 is water based and non-flammable.

Cleaning and Disposal

Spillages of Supremix PC 450should be absorbed onto sand, earth or vermiculite and transferred to suitable containers. Remnants or vermiculite and transferred to suitable containers. Remnants should be hosed down with large quantities of water. The disposal of excess or waste material should be carried out in accordance with local legislation under the guidance of the local waste regulatory authority.



Supremix PC550 is an Advanced Low Viscosity High Performance Super-plasticiser, based on Polycarboxylic technology this is an unique combination of the latest generation superplasticisers, based on a polycarboxylic ether polymer with long lateral chains VMA and Rheology modifier inbuilt, This greatly improves cement dispersion. At the start of the mixing process an electrostatic dispersion occurs but the cement particle's capacity to separate and disperse. This mechanism considerably reduces the water demand in flowable concrete. Supremix PC 550 combines the properties of water reduction and workability retention. It allows the production of high performance concrete and/or concrete with high workability.

Uses & Advantages

Supremix PC550 is a high performance superplasticiser intended for applications where high water reduction and long workability retention are required, and it has been developed for use in:

- Self-compacting concrete,
- Pumped concrete, and Value added concrete,
- Concrete requiring long workability retention,
- High performance concrete up to M200 Grade concre
- Low viscosity suitable for pumping of different grades of concrete to higher floors
- Higher E modulus
- Improved adhesion to reinforcing and pre-stressing steel
- Better resistance to carbonation
- Lower permeability
- Better resistance to aggressive atmospheric conditions
- Reduced shrinkage and creep
- Increased durability

Standard Compliance

Supremix PC450 complies with IS:9103-1999(2007). It also complies with ASTM C494 Type G depending on the dosage used

Technical support

Silkon provides a technical advisory service for on-site assistance and advice on mix design, admixture selection, evaluation trials and dispensing equipment.

Properties

Appearance	:	Light yellow colour liquid
pН	••	Minimum 6.0
Volumetric mass @ 20 ⁰ C		1.09 kg/litre
Chloride content	:	Nil to IS:456

Dosage

The optimum dosage of Supremix PC550 to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use. The normal dosage range is between 0.3 to 3.0 ltrs/100 kg of cementitious material.

Effects of overdosing

Dosage outside the normal range quoted above can be used to meet particular mix requirements. Overdosage may cause delay in the setting time and segregation. Contact Silkon for advice in these cases

Packaging

Supremix PC550 is available in 200kg and 250kg drums and bulk tanker.

SILKON ADDITIVES (INDIA) PVT LTD



Storage

Supremix PC550 has a minimum shelf life of 12 months provided the temperature is kept within the range of 2^{0} C to 50^{0} C. Should the temperature of the product fall outside this range then contact local Silkon office for advice.

Health and safety instructions

Supremix PC550 does not fall into the hazard classifications of current regulations. However, it should not be swallowed or allowed to come into contact with skin and eyes. Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting. For further information consult the Material Safety Data sheet available for this product.

Fire

Supremix PC 550 is water based and non-flammable.

Cleaning and Disposal

Spillages of Supremix PC 550should be absorbed onto sand, earth or vermiculite and transferred to suitable containers. Remnants or vermiculite and transferred to suitable containers. Remnants should be hosed down with large quantities of water. The disposal of excess or waste material should be carried out in accordance with local legislation under the guidance of the local waste regulatory authority.

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