



SILKON
ADDITIVES (INDIA) PVT LTD

Silcoat SB500

Silcoat SB500 is a colorless silicone based water repellent coating. A deep penetrating treatment designed to protect concrete from both water and chloride ingress whilst still permitting water vapour transmission (breathability) and provide water repellent surface with improved self cleaning properties on exterior building - brick work, concrete, cement rendering, natural or cast stone. Helps in reducing efflorescence due to soluble salts in brickwork.

Product usages and advantages:

- Ready to use: Brush or spray applied direct from container.
- Versatile: Equally effective on old or new surfaces.
- Self-cleaning: Unaffected by salt-laden atmosphere, reduces unsightly staining.
- Protects brickwork: Risk of efflorescence is reduced.
- Protects concrete: Reduces causes of cracking and crazing in in-situ or precast concrete
- Colorless: Preserves natural color and texture of created material. Allows surface to breathe.

Standards compliance:

Silcoat SB500 complies with BS 6477-92 Class A and Class B as silicone - based water repellent. For application on brickwork, concrete, cement rendering, natural or cast stone of predominantly siliceous nature, it complies with BS6477-92 Class A. For application on sand stone, lime stone, calcium silicate, brickwork, natural or cast stone of predominantly calcareous nature, complies with BS6477-92 Class B.

Description

Silcoat SB500 is supplied as a colorless, ready to use, silicone resin solution which can be sprayed or brush applied on to the surface.

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 can be provided for Silcrete and other products.

Properties:

Penetration: Silcoat SB500 penetrates into concrete for a minimum depth of penetration of 2mm

Water resistance:

Repels rain water and inhibits ingress of surface water provided there is no hydrostatic pressure.

Permeability

Permeability is low to water, salt solution, dust and soot particles. Leaching of soluble salts from brick work, which causes efflorescence, absorption of deicing salts by concrete which causes degradation and absorption of atmospheric dirt by brickwork, concrete and stone are all minimized.

Water vapor release:

Silcoat SB500 allows building surfaces to breathe naturally.

Application Methodology:

Preparation

Surfaces should be dry, although slight dampness is not detrimental. Surface to be treated should be free from oil, grease, loose particles, decayed matter and moss or algae growth. For this, cleaning with itching chemical is recommended. Joints in brickwork should be sound. If not, should be raked and redone with cement/sand mortar using Superplast waterproofing compound.

Coating:

Apply Silcoat SB500 evenly by spraying or brushing. Ensure an even coat over the entire surface. Porous surface should be well saturated with a two coat application.

Decorating:

Decorative coatings can be applied to surfaces previously treated with Silcoat SB500. Water based cement or emulsion paints should not be applied on coated areas. They can be applied before coating the surface with Silcoat SB500 coating.

Cleaning:

Brushes and equipment should be cleaned with Silkon Solvent immediately after use.

Packaging and coverage:

Silcoat SB500 is available in 1, 5 & 20 litre containers. On brick work and smooth cement renderings, 4.5 - 9 m² per litre can be covered depending upon porosity of the substrate.



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Shelf life:

Silcoat SB500 has a shelf life of 12 months if kept in a dry store in its original packing. High temperature and humidity storage may reduce this period.

Health & Safety instructions:

Contact with skin and eyes shall be avoided. Contamination with skin and eyes should be washed with water. Silcoat SB500 in liquid state is slightly toxic. Should be kept away from children and animals. Prolonged inhalation of the vapor should be avoided and adequate ventilation be ensured.

Fire:

Silcoat SB500 is inflammable. Liquid vapour should not be exposed to naked flames. Smoking should be prohibited during application.

Flash point:

Silcoat SB500 : 38⁰C

Note : It is important to reseal containers after use to prevent deterioration of the product or evaporation. Any spillage should be absorbed with sand or saw dust.