

BERGOSILAN - 02

PRODUCT DESCRIPTION

An Silane Siloxane based water repellent treatment for porous mineral substrates that penetrates deep into the substrate to form a clear hydrophobic layer that repels water and moisture.

PRODUCT FEATURES

- > Excellent water repellent characteristics
- > Excellent penetration power
- > Breathable coating i.e. allows concrete to breathe
- > Effective even when applied to damp substrates
- > Good alkaline resistance

DESIGN USE

As a water repellent / anti-carbonation coating for use on bare and porous mineral substrates such as concrete and bricks. Not suitable for use on gypsum

PHYSICAL DATA

Volume solids	20%
Dry Film Thickness (dft)	This product does not form a film
Wet Film Thickness (wft)	Wet the surface liberally. Apply a minimum of two coats, wet on wet for best results
Number of coats	2
Theoretical coverage	Approximately 10-12 m ² /litre per coat. Actual value will depend on porosity of the substrate
Finish	Not applicable
Colour range	Not applicable
No. of components	One
Standard packing size	5 USG

TYPICAL PROPERTIES

Physical:	
Appearance	: Colorless clear liquid
Specific Gravity	: 0.81 @ 25°C
Overcoating time	: "Wet-on-wet" application
Minimum application Temperature	: 3°C above the dew point
Maximum application Temperature	: 50°C
Performance data:	
Chloride ions permeability By (AASHTO T277)	: 472 Coulombs
Reduction in chloride ions Penetration (30 days) By (AASHTO 259)	: 94%
Water absorption by BS1881 Part 122	: 0.3% by wt.
Reduction in water absorption by BS 1881 Part 122	: 83% by wt.

APPLICATION METHOD

Conventional Air Spray Recommended method of application
 Nozzle size: 0.231 – 0.282 mm (0.009-0.011 in)
 Pressure : 1.0-1.5 kg/cm²

Roller, Brush May be used

Stir contents of the can thoroughly before use. Thinning is not required.
 Apply freely to sufficiently flood the surface. After the first coat has penetrated and is just about to dry off, apply a second coat.

DRYING TIME

Allow 24 to 72 hours depending upon ambient temperature and porosity for complete reaction before overcoating. Recoating with same material can be done within 2 to 6 hours depending upon the ambient condition and porosity. Premature overcoating may result in loss of water repellent properties.

ADDITIONAL INFORMATION

THINNER	Not required
THINNING RATIO	Not required
CLEANING SOLVENT	Solvalux 7-9
FLASH POINT	> 50°C
STORAGE REQUIREMENTS	Keep away from moisture and direct sunlight

SURFACE PREPARATION

The service life span and the service performance of this product are directly related to the degree of surface preparation.

New concrete should be left for at least 21 days to cure before coating. The surface to be coated must be clean and free from all loose extraneous materials such as loose paint, dust etc. High pressure water wash external walls to remove all loose materials.

If fungus or algae is present, first treat with Berger Fungicidal Wash and leave for 24 hours. Then, thoroughly rinse and wash or scrape away all the fungus.

If grease is present, clean using a mild detergent or solvent and rinse thoroughly to ensure complete removal of the grease, detergent and solvent.

This product only works when applied directly to the substrate. As such, when refurbishing old substrates, all existing coatings must be removed to bare substrate before application of Bergosilan 02.

PRODUCT USE RESTRICTIONS

- Not suitable for use on non-porous substrates. Not suitable for use on gypsum Boards
- This product must be applied directly to the bare substrate and allowed to cure for a minimum of 24 to 72 hours to achieve its optimum performance properties.

SAFETY PRECAUTIONS

- Avoid contact with the skin and eyes. Wear suitable protective clothing such as overalls, goggles. Use dust mask if applying by spray.
- Ensure that there is adequate ventilation in the area where the product is being applied. Do not breathe vapour or spray.
- This product is flammable, Keep away from sources of ignition. Do not smoke. Take precautionary measures against static discharge. In case of fire, blanket flames with foam, carbon dioxide or dry chemicals.

FIRST AID

- **Eyes** : In the event of accidental splashes, flush eyes with water immediately and obtain medical advice.
- **Skin** : Wash skin thoroughly with soap and water or approved industrial cleaner. DO NOT USE solvent or thinners.
- **Inhalation** : Remove to fresh air, loosen collar and keep patient rested.
- **Ingestion** : In case of accidental ingestion, DO NOT INDUCE VOMITING. Obtain immediate medical attention.

DISCLAIMER

The information provided on this data sheet is not intended to be complete and is provided as general advice only. It is the responsibility of the user to ensure that the product is suitable for the purpose for which he wishes to use it. As we have no control over the treatment of the product, the standard of surface preparation of this substrate, or other factors affecting the use of this product, we are not responsible for its performance nor would we accept any liability whatsoever or howsoever arising from the use of this product unless specifically agreed by us from time to time, and without notice, in the light of our experience and continuous product development.

This Technical Data Sheet supersedes those previously issued with immediate effect.

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