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DATA SHEET

SOFEXSIL-40

Water Repellent for masonry surfaces

TU 2229-008-42942526-00

FEATURES

- Imparts water repellency to a wide variety of substances

BENEFITS

- Reduces water absorption into the substrate, thus reducing spalling due to freeze-thaw and efflorescence, thereby increasing the life of the substrate
- Colorless and non-yellowing protection preserves the natural appearance of the substrate
- Penetrating and breathable
- Low VOC
- Nonflammable

COMPOSITION

- Water-dilutable potassium methyl silicate solution
- Clear to slightly yellow

DESCRIPTION

Sofexsil 40 Water Repellent is a water-dilutable solution of potassium methyl silicate designed to impart water repellency to a wide variety of surfaces. Supplied at a concentration of 40 percent in water, *Sofexsil 40* Water Repellent is usually diluted to a concentration of 3 percent or less before application. The silicate reacts with carbon dioxide in the air to form an insoluble water-resistant treatment within 24 hours.

HOW TO USE

As a Surface Treatment

Sofexsil 40 Water Repellent is diluted to a concentration of 3 percent solids or less prior to application. To prepare a 3 percent solution, mix one gallon (3.78 liters) of *Sofexsil 40* Water Repellent, as supplied, with 13 gallons (49.2 liters) of water.

Do not use concentrations higher than 3 percent solids unless prior testing

APPLICATIONS

- As a surface treatment in applications that utilize its ability to impart a water repellent surface and reduce water absorption
- For use on bricks, sandstone, limestone, and ceramics.

TYPICAL PROPERTIES

Test	Unit	Result
Total Solids Content, 90 min at 150°C	%	40-45
Silicone Solids Content	percent	24
Specific Gravity at 25°C		1.29
Flash Point, open cup	°C	>93.8
pH		13
Density	lb/gal	10.8
Solvent (thinner)		Water
Volatile Organic Compound Content	lb/gal	<0.417

indicates a necessity. The use of higher concentrations than required may result in the formation of a white residue on the surface. Users should test the concentration to be applied on the substrate prior to use.

After application of the silicone solution, allow the treated surface to dry for at least 24 hours to develop maximum water repellency. This interval may be shortened somewhat by force-drying at temperatures up to 175°C. While this removes the water quickly, time must be allowed for the curing reaction between *Sofexsil 40* Water Repellent and the surface being treated. Carbon dioxide streams do not appear to reduce the cure time appreciably.

Application Methods

Dilute solutions of *Sofexsil 40* Water Repellent can be applied by dipping, spraying or brushing

Application Precautions

- Always test the concentration on a small sample of the material to determine the suitability of your specific use.
 - Surfaces to receive the water-soluble silicone should be lightly dampened immediately prior to application.
 - This water-soluble silicone does not wet surfaces that have been previously treated with silicone or another water repellent treatment.
- When spraying *Sofexsil 40* Water Repellent, great care should be taken to protect nearby vegetation or articles from overspray. The material is very caustic. It will damage or kill vegetation and will stain or etch glass, plastic, aluminum and most metals. If contact does occur, wash immediately with water.

PACKAGING

Sofexsil 40 Water Repellent supplied in 1-lb (0.454-kg), 50-lb (22.7-kg) and 550-lb (249.5-kg) containers. Bulk IBC containers are available upon request.