TECHNICAL DATA SHEET

TOPSEAL W50

Water based Siliconate Sealer and Water Repellent

Description

TOPSEAL W50 is a clear, water-based siliconate sealer and water repellent for protecting a wide variety of surfaces. It provides an economical solution for protecting substrates from water and the elements. It penetrates deeply into new or existing stones, bricks, concrete or masonry for maximum protection against water penetration, chloride ion attack, freeze/thaw cycles and weathering. The siliconate reacts with carbon dioxide in the air to form an insoluble water-resistant treatment within 24 hrs.

TOPSEAL W50 has excellent ability to penetrate in all porous surfaces without creating film and therefore it allows the substrates to breath.

Features & Benefits

- Works on new and old surfaces.
- Cost effective, Provides durable performance at an affordable cost
- Water based, Zero VOC and environment friendly product.
- Easy to apply by brush or spray
- Preserves natural color and texture of treated surfaces.
- Excellent water repelling properties.
- Colorless and non-staining, Does not alter surface appearance.
- Excellent resistance to weathering.
- Breathable, allows interior moisture to escape.
- Reduces chloride intrusion.
- Reduces efflorescence

Uses

TOPSEAL W50 is used as a clear sealer, offers an excellent water repellent property to the surface which penetrate deeply on the surface to protect the substrate from water penetration for long years. Ideally suited for the interior and exterior applications including brickwork, cementitious finishes, natural stone and precast elements.
TOPSEAL W50 is also used to protect concrete, plaster, bricks, block walls, against chloride, and aggressive environmental attack. Also, it can be used on the back of Marble, Natural stone before application to protect from changing colors from adhesive.

Technical Properties

Appearance	Clear Liquid
Density	1,000- 1,030 Kg/m^3
% of water exclusion vs non treated substrate	87% for Stone 95% for Bricks
% Water Weight Adsorption Coated Stone Uncoated Stone Coted Brick Uncoated Brick	 1.2% 9.0% 0.7% 6.0%
Time for re-coat	2-3 hours
Drying time before top painting	Min. 24 hours
Rapid chloride permeability	Very low
VOC	Zero g/L

All values are subject to 5-10% tolerance

Standards Compliance

- ASTM C1202, E96
- ASTM C373

Application Procedures

Surface preparation:

Surface of the concrete must be clean and dry. Oil stains or grease residue must be removed.
All faults must be corrected prior to commencement of the coating work.
New concrete must be cured at least 21 days before applying **TOPSEAL W50**. All concrete curing compounds must be mechanically removed, along with any foreign material.

TECHNICAL DATA SHEET

On old concrete, clean the surface thoroughly. Remove oil stains and grease residues. Any unresolved stains left on the concrete will be visible after the film dries.
Plaster must be through a dry and not simply surface dry. Confirm that the plaster is not wet inside by digging into the plaster with a blade. In good drying conditions leave plaster at least 3 days to dry.

Mixing Instructions:

TOPSEAL W50 is ready to use single component product that requires to stir the content of pail before application.

Application Instructions:

Apply **TOPSEAL W50** by brush, roller or spray machine. It should be applied in two flood coats until the recommended total application rate of 6-8 m^2 per Liter per coat. The time between the two coats is 2-3 hrs at 25 ^oC.
For capillary rising humidity **TOPSEAL W50** can be simply poured in the previously prepared holes. Fill the injectors and let the product penetrates for at least 24 hours and re-pour the product into the injectors if they become empty.
After the absorption of the product, remove the injectors and close the holes. **TOPSEAL W50** can be also applied with a low-pressure pump.

Coverage

The coverage of **TOPSEAL W50** depends on the porosity of surfaces but generally, it is approximately 4-5 m^2 per Lt. depending on surface texture and porosity.
Normally two coats are recommended

Packaging

TOPSEAL W50 is available in 5& 20 Liter Jerkins.

Storage

Keep the product in dry and sheltered place at temperature between +5ºC to +35ºC. In these conditions and in closed original containers, the product will have a shelf life of at least 12 months.

Health and Safety

Wear gloves, goggles to avoid any contact with eyes and skin. In case of splashes in the eyes wash abundantly with warm water and consult a doctor.

For further information or particular use, contact SBI Technical Department.

Quality & Care

All products produced in SBI facilities are manufactured under a management system certified to conform to the requirements of the quality and environmental health & safety standards ISO 9001 & ISO 14001.

REV 00-8012

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