

MonniSil A

Water Repellant Penetrating Water Based Sealer

Product Description

MonniSil A is a single component silicate solution designed to impart water repellency and reduce water absorption to a wide variety of surfaces.

MonniSil A penetrates deeply into new or existing concrete or masonry for maximum protection against different substances, water penetration, chloride ion attack and freeze-thaw cycles.

The water based sealer is characterized by an excellent ability to penetrate all porous materials used in masonry surfaces. It doesn't create a film and therefore it allows the substrates to breath.

Uses

MonniSil A is used as a surface treatment designed to protect:

- ▶ Masonry surfaces
- ▶ Bricks
- ▶ Sandstone
- ▶ Ceramics
- ▶ Limestone

Advantages

- ▶ Excellent water repellant characteristics
- ▶ Reduces water absorption into the substrate, thus reducing spalling due to freeze-thaw and efflorescence, thereby increasing the life of the substrate.
- ▶ Long lasting protection.
- ▶ Transparent and non-staining/non-yellowing
- ▶ Eco-friendly Low Volatile Organic Content
- ▶ Breathable. Allows interior moisture to escape without damaging the sealer

Usage Instructions

Surface Preparation

All surfaces should be clean, sound and uncontaminated. This preparation should leave an exposed concrete, free from dust, loose particles, deleterious matter, oil, grease, chemical films and other contaminants.

Pre-application

Test a small area of the surface (generally 1.0m² x 1.0m section) before starting application of the sealer to ensure desired performance results, aesthetics & coverage rate. Allow 5-7 days for the product to fully react.

Application

MonniSil A is a single component solution, applied at full strength. Mix the material thoroughly before & during application. MonniSil A should be applied with a brush, roller or low pressure non-atomizing spray uniformly onto the surface at a rate of 4-5 m/ liter.

For vertical surfaces, flood the surface by applying from the bottom up applied to saturation with a controlled material rundown to ensure maximum penetration on the surface.

Extremely porous substrate may require two coats. Apply the second coat as soon as the initial surface drying of the first coat has been visible which around 2-4 hours is at ambient temperature. Cooler temperature or higher relative humidity may extend drying time.

Surfaces with salty efflorescence must be cleaned mechanically or washed with acid cleaner and subsequently rinsed with water. Wait for the surface to dry, before proceeding with the application of MonniSil A.

All cement supports must be allowed to cure for at least 21 days before being impregnated with the product.

Curing

After application of MonniSil A, allow the treated surface to dry for at least 24 hours to develop maximum water repellency.

Cleaning

Equipment and tools used should be cleaned promptly with water

Technical Data

Category	Typical Values
Appearance	transparent liquid
Density	1.03 kg/L @ 25°C
VOC	<0.4 g/L
Drying Time	6-8 hours @ 25°C
pH	8.0-9.0 @ 25°C
Temperature of application	from +5 °C to +35 °C
Waiting time before top painting	Minimum 24 hours
Rapid Chloride Permeability	Very Low
Harmfulness EEC 88/379	Harmful for contact

All values are subject to 5-10% tolerance

Standards Compliance

- ▶ ASTM C 1202

Legal disclaimer

Monneli endeavors to ensure that any advice, recommendations, information it may give, is accurate and correct. It cannot accept any liability either directly or indirectly arising from the use of its products, because it has no direct or continuous control over where or how its products are applied, whether or not in accordance with any advice, specification, recommendation or information given by us. Monneli has the right to change any of the specifications mentioned in the Technical data sheets upon its discretion without prior notification. Hard copies of TDSs are printed once or twice a year, while our technical data sheets are continuously being updated as per R&D improvements and new 3rd party testing; kindly refer to our website for the latest updated TDSs.

Consumption

MonniSil A is packed in 20 liters and 210 liters drums.

Coverage

4-5 m² / liter depending on the porosity of the substrate

Storage

Keep in original well closed drum, in dry and sheltered place, at the temperature between +5 °C +35°C. Shelf life is 6 months from date of manufacturing when stored properly.

Recommendations

- ▶ Do not apply if rain, dew or water exposure is expected with 24 hours of application. Avoid application in direct sunlight and during high winds.
- ▶ Do not use onto the gypsum supports
- ▶ Do not apply in areas where negative hydrostatic pressure is possible...

Health & Safety

Direct contact with the product may result in irritation of the skin and eyes. Product vapors may also cause irritation.

Wear gloves and masks during application. Remove any contaminated clothing and wash skin thoroughly with soap and water. Remove ignition sources prior to use.

In case of accidental eye contact, wash with plenty amount of water and seek immediate medical attention.