

Monosil

Clear Masonry Waterproofing Solution

Product Overview

Clear hydrophobic impregnating solution used to repel water and resist oil penetration.

Description

MONOSIL is a single component water-based mixture of silane, siloxane and synthetic resins which provides protection from water ingress and enhances freeze/thaw resistance. It also imparts water oil repellence to concrete floors, car parking decks and other trafficked areas.

The hydrophobic solution penetrates into the surface pore structure with minimal effect either on appearance or water vapour diffusion. It is ideally suited to the protection of stonework which is vulnerable to the effects of weathering.

Uses

Suitable for surface protection systems principles 1.1 and 2.1 as defined in BS EN 1504 Part 2.

Advantages

- Advanced blend of silane, siloxane and synthetic resins for multi-functional protection.
- Imparts water and oil repellence to mineral substrates.
- Enhances dirt resistance of low porosity natural stone.
- Breathable, minimal effect on water vapour diffusion.
- Low hazard, water-based product with no flash point.
- Applied by brush, roller or spray, normally in two coats.
- Equipment easily cleaned with water.
- Treated surfaces are easier to maintain.

Compliance

- UK & CE-Marked in accordance with BS EN 1504-2.

Application Instructions

Preparation

The areas to be treated must be air dry, absorbent and free from existing coatings and all unsound material, i.e. dust, oil, grease, corrosion by-products and organic growth. Use techniques capable of achieving this preparation such as wet grit or water blasting or equivalent approved methods.

Placing

MONOSIL is applied by brush, roller or spray at a coverage rate of 6-8m²/litre per coat, depending upon surface absorbency. Rougher surfaces will increase consumption.

For the treatment of walls, the product can first be diluted 1:1 by volume with clean water prior to application.

Allow to dry for a maximum of 24 hours before applying a second coat as above. The hydrophobic and oleophobic effects start to develop within 24 hours and are complete within one week to give maximum water and oil repellency.

Treated surfaces should be cleaned as soon as they have become defaced with oil, grease or paint. Clean surfaces may need re-treating to maintain their performance.

Coverage

| Form | Coverage Per 5 Litre Unit Applied as Two Coats (m ²) |
|----------------------------------|--|
| As supplied for floors | 15-20m ² |
| Diluted 1:1 with water for walls | 30-40m ² |

Cleaning and Storage

- Clean all tools with water immediately after use.
- Shelf-life is 2 years for unopened containers stored in dry, frost-free conditions away from heat.

Packaging and Coverage

- **MONOSIL** is supplied in 5 litre units.

Health and Safety

- Safety Data Sheets are available on request.

Application Top Tips

1. Shake bottle thoroughly.
2. **MONOSIL** should be applied by brush, roller or spray at a coverage rate of 6 to 8m²/litre per coat, depending upon surface roughness and porosity.
3. For the treatment of walls, the product can first be diluted 1:1 by volume with clean water, prior to application as above.
4. Allow to dry for a maximum of 24 hours before applying a second coat as above.
5. Test the product first on an inconspicuous area to check for any change in surface appearance.
6. Cold Weather Working (See separate Guide)
 - Do not apply below 5°C.
 - Do not use any product which has been frozen.

The information herein is correct to the best of our knowledge, but it does not necessarily refer to the particular requirements of the customer. If the customer has any particular requirements it should make them known in writing to Flexcrete Technologies Limited, and obtain further advice accordingly.

Technical Data

| Property | Standard | EN 1504 R2 Requirement | Typical Result | |
|----------------------|-----------|------------------------|------------------------|-----------------------|
| | | | As Supplied for Floors | Diluted 1:1 for Walls |
| Depth of Penetration | EN 1504-2 | ≥10mm (Class II) | 15.5mm | 13.0mm |
| Drying Rate | EN 13579 | >10% (Class II) | 15.8% | 13.8% |
| Water Absorption | EN 13580 | AR<7.5% | 2.37% | 4.98% |
| Resistance to Alkali | | AR _{ALK} <10% | 6.15% | 7.85% |
| Appearance | | - | Milky White Liquid | |
| Specific Gravity | | - | 1 | |
| Flashpoint | | - | >100°C. | |
| pH(Approx) | | - | 6 | |

