



FINOMIX[®]
DRY MORTARS

Technical Data Sheet

Release 3: 21/05/2021

sil•proof 5050

silicone-based solution for waterproofing

- It protects cement mortars and natural stones from water ingress and pollutants
- It allows water-vapour permeability of surfaces
- It doesn't form film on the surfaces - It doesn't affect colours
- Great durability over time



SIL•PROOF 5050

silicone-based solution for waterproofing

DESCRIPTION

Solvent-based, ready-to-use, transparent, silicon-siloxane solution with excellent penetrating properties and UV-resistance, for the waterproofing of inorganic substrates.

It provides the surfaces with a strong and exceptionally durable hydrophobic profile without leaving marks or stains and without affecting their colour and water-vapour transpiration capability. It protects the surfaces from moisture ingress, eliminates efflorescence and increases their resistance to frost.

Classified as hydrophobic impregnation product (H) for the protection of concrete structures according to European standard EN 1504-2.

APPLICATIONS

Used in order to provide water repellency and protection against moisture penetration on natural and artificial stones (marble, stone, granite).

Also on renders, exposed concrete, AAC blocks, roof tiles, tile grouts, decorative bricks, etc.

Ideal for the protection of the decorative mortars **SD 60 RETRO** and **FC 1200**, as well as the microcement coatings **SD 70 DÉCOR**, **SD 80 DÉCOR•FLEX** and **SD 90 DÉCOR•MICRO FLEX**.

PROPERTIES / ADVANTAGES

- Ready-to-use and easy-to-apply.
- Excellent waterproofing results and great durability over time.
- It allows water-vapour permeability of surfaces.
- It doesn't affect the colour of the materials and doesn't form film on the surfaces.
- It protects against the appearance of scale and the effects of frost as the surfaces do not absorb rainwater.
- It protects surfaces from dirt deposition.
- It protects exposed surfaces in coastal areas as it reduces chloride penetration.
- Can be coated with solvent paints.
- Suitable for high alkalinity substrates.

HARMONIZED STANDARDS / REGULATIONS

- **EN 1504-2:2004**: Products and systems for the protection and repair of concrete structures - Hydrophobic impregnation (H). It fully complies with the requirements of the standard.
- **Regulation (EC) No. 305/2011**: CE marked product with Declaration of Performance (DoP): SP5050/CPR-7-13/083/04-2021.

APPLICATION INSTRUCTIONS

- The substrate must be clean, dry, free of dust, grease, construction residues or other types of contamination.
- Materials vulnerable to solvents (windows, painted surfaces, insulating materials, etc.) should be protected before application. In case **SIL•PROOF 5050** falls on a window or other non-porous surface, it should be cleaned immediately with a solvent (white spirit).
- **SIL•PROOF 5050** is applied by spraying, with a brush or a roller.
- Usually two or more layers are needed to fully waterproof surfaces. The second layer (and each subsequent layer) follows as soon as the previous one is absorbed.
- The amount required for the complete impregnation of a surface and the effectiveness of the impregnation should first be checked by testing a small portion of the surface.
- The hydrophobicity of the surfaces is developed immediately after the absorption of the material. However, the full effect appears after a few days.

RECOMMENDATIONS

- Temperature during application should be between +5°C and +35°C.
- Keep packages sealed. The product reacts with air humidity. Prolonged contact with air should be avoided.
- Before application, protect non-porous surfaces and surfaces affected by solvents.
- For optimal waterproofing the product should not be applied on surfaces with standing water.

TECHNICAL CHARACTERISTICS

PRODUCT CHARACTERISTICS

| | |
|----------------------|----------------------------------|
| Appearance | liquid |
| Colour | clear - colourless |
| Chemical composition | silane / siloxane-based solution |
| Density | 0.80 ±0.05 kg/lit |

APPLICATION CHARACTERISTICS (+23°C / 50% R.H.)

| | |
|-------------------------|--------------------------------|
| Application temperature | minimum: +5°C / maximum: +35°C |
| Drying | 30-60 minutes |
| Film formation | no |

PERFORMANCE CHARACTERISTICS

| | |
|---|---|
| Penetration depth | class II: ≥ 10 mm |
| Water absorption and resistance to alkali as: | absorption ratio < 7.5% compared to the untreated specimen absorption ratio < 10% after immersion in alkali solution |
| Drying rate for hydrophobic impregnation | class I: > 30% |
| Dangerous substances | complies with section 5.3 (see MSDS) |

Note: Measures were carried out in laboratory environment conditions. The different conditions on site (temperature, humidity, wind, substrate absorption) may affect the properties of the material.

SAFETY PRECAUTIONS

- **SIL•PROOF 5050** is flammable and should be kept away from ignition sources.
- It is recommended to always wear appropriate protective equipment for eyes and skin (protective clothing, gloves and goggles).
- Consult product's Safety Data Sheet for further instructions on safety handling.
- **PRODUCT FOR PROFESSIONAL USE.**

CONSUMPTION

Depending on the surface's absorbency. Indicative consumption values are presented in the table below:

| MATERIAL | CONSUMPTION (lt/m ²) |
|------------------|----------------------------------|
| Concrete | 0.25-0.50 |
| Plaster | 0.50-1.00 |
| Brick | 0.40-2.00 |
| Aerated concrete | 0.50-2.00 |
| Cement board | 0.10-0.30 |
| Natural stone | 0.05-2.50 |

PACKAGING - STORAGE

Available in:

- 3lt and 20lt metal containers.

Storage: 18 months from production date, in original, sealed container, protected from direct sunlight and ignition sources.

LEGAL NOTICE

The technical characteristics and recommendations for the use and application of the **FINOMIX** range of products are based on the knowledge and experience of the company. The above information shall be considered merely indicative and subject to confirmation after long-term practical application. For this reason, anyone who intends to use the product must ensure that it is suitable for the envisaged application. Since the specific site conditions during the applications are beyond the control of our company, the user alone is fully responsible for any consequences deriving from the use of the product. **FINOBETON S.A. (FINOMIX)** has the right to modify the properties of its products without prior notice. This release voids any previous publications issued for this technical specifications sheet.

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