FLAG STONE FIX
STONE CARE EXPERTS

ZYAX GROUP

Technical Data Sheet (TDS)

FS DEEP IMPREGNATOR

Solvent-based water repellent for porous natural stone surfaces

DESCRIPTION

FS Deep Impregnator is a ready-to-use, solvent-based blend of silanes and siloxanes for water repellency and impregnation of mineral and alkaline surfaces. It reacts with moisture to reduce water absorption while retaining breathability, allowing trapped vapors to escape. The formula offers deep penetration, alkali resistance, tack-free drying, and works even on slightly damp surfaces.

KEY FEATURES

Once applied to mineral-based surfaces, FS Deep Impregnator reacts with atmospheric moisture or inherent substrate dampness to form an active barrier compound along with alcohol. This reaction significantly decreases the material's ability to absorb water while allowing water vapor to pass through freely. The treated surface stays breathable, ensuring that internal moisture can evaporate and won't damage the substrate.

BENEFITS

- Excellent depth of absorption
- Quick formation of water-repelling properties
- Maintains vapor permeability; allows moisture to escape
- Resistant to alkaline environments
- Dries without leaving a tacky finish
- Can be applied even on slightly damp surfaces

APPLICATION AREAS

- Absorbent, porous, mineral substrates
- Brickwork
- All kinds of concrete
- Aerated concrete
- Sand-lime brickwork
- Cement Fiberboards
- Mineral plasters
- Mineral-based natural and artificial stones
- Mineral paints
- Also suitable as a primer for exterior paints
- It is not suitable for gypsum

COVERAGE ESTIMATES

Coverage will vary based on surface texture and absorbency. A patch test is advised to assess spread rate and performance. For concrete and external surfaces, expected coverage is 30–60 sq. ft. per liter.

STORAGE AND SHELF LIFE

FS Deep Impregnator has a shelf life of approximately 2 years when stored in the original container in a cool and dry place.

APPLICATION GUIDELINES

SURFACE PREPARATION:

- FS Deep Impregnator can be used directly on freshly set substrates. Aged or weather-exposed surfaces should be thoroughly cleaned to restore open porosity, especially if moss, algae, or dirt buildup is present.
- Shield adjacent areas that aren't intended for treatment, as this solvent-based product may stain unintended surfaces.
- In case of spills or stains, promptly wipe off using a suitable solvent.

APPLICATION METHOD:

- The product may or may not slightly darken some surfaces. Conduct a small test patch to assess visual impact.
- Apply the product liberally with a brush, roller, or mop to ensure full coverage. Its liquid formulation makes it ideal for both vertical and horizontal surfaces.
- Apply 2–3 wet-on-wet coats, ensuring that the next layer is added once the previous one has soaked in and is no longer glossy.
- Avoid letting excess product pool; the final appearance should be dry to the touch.
- Keep the work area ventilated during and after application.
- Allow 48–72 hours for full curing, depending on ambient temperature and humidity.

TECHNICAL INFORMATION

Appearance	Colorless, hazy solution
Odor	Mild, characteristic
Density	0.9 ± 0.1 g/cm³
Flash Point	About 45°C

CAUTION

- Flammable (flash point about 45°C). Keep away from heat, sparks and open flames. No smoking during application.
- Always wear safety gloves, goggles, and protective clothing during application.
- This product does not provide acid resistance.
- Avoid applying during or just before rainfall to ensure full product performance.

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