KREVO Guard Penetrating Sealer

Hydrophobic penetrating fluorosilane sealer | Water & chloride protection | Stain repellency

PRODUCT DESCRIPTION

KREVO Guard Penetrating Sealer is a clear, solvent-free fluorosilane-based hydrophobic treatment for concrete and masonry. The penetrating treatment is designed to reduce the ingress of water and chloride ions, limit staining by oils and fuels, and maintain the original substrate appearance. It is intended to provide water repellency without forming a conventional film on the surface.

ADVANTAGES

- Reduces capillary water absorption and chloride ion ingress into sound concrete.
- Helps resist staining from motor oil, gasoline, kerosene and diesel.
- Non-film-forming treatment designed to retain water-vapour transmission and natural appearance.
- Clear, low-viscosity penetrating liquid; single-coat application on suitable concrete.
- Solvent-free design with low fire risk and a zero-VOC formulation objective.

TYPICAL USES

Bridges and highway structures • Marine and coastal concrete • Parking decks • Commercial buildings • Industrial facilities • Exposed masonry and reinforced-concrete surfaces requiring water and stain repellency.

PRODUCT INFORMATION

PARAMETER	SPECIFICATION
Material type	Solvent-free, clear penetrating fluorosilane water repellent
Appearance / colour	Clear liquid; minimal visual change on properly treated concrete
Function	Hydrophobic treatment for chloride, water and oil-stain repellency
Compatible substrates	Concrete and masonry (confirm by trial area)
Application method	Flow coat, roller or low-pressure spray
Minimum theoretical consumption	0.20 litre/m^2 per coat; generally one coat on dense concrete
Packaging	19 L (5 US gal) pail and 200 L (55.5 US gal) drum
Shelf life / storage	24 months, dry and shaded at +30 °C or below

TECHNICAL PERFORMANCE SPECIFICATION

PROPERTY / TEST BASIS	SPECIFIED VALUE
Reduction in chloride ion penetration	> 90%
Reduction in water absorption	> 95%
Siloxane content	< 0.1%
Specific gravity	Approximately 1.0
Viscosity	< 150 cP
Boiling point	> 100 °C
Chloride content	< 10 ppm

Application & System Data

KREVO Guard Penetrating Sealer | Coverage, substrate assessment, surface preparation and protection

APPLICATION PROPERTIES

PARAMETER	METHOD / CONDITION	MINIMUM / LIMIT	NOTES
Treatment rate	Flow coat / roller	0.20 L/m²	Per coat, adjust for porosity
Coats	Sound, low-porosity concrete	Typically 1	Assess substrate uptake
Surface wetting	Continuous wet film	At least 5 s	Maintain mirror-wet appearance
Temperature	Ambient / substrate	Not below +5 °C	Avoid rain during application

Consumption is based on surface area and actual absorption. Highly porous surfaces may require additional material. Conduct a trial to verify uptake, appearance and compatibility before full-scale installation.

TYPICAL APPLICATION SEQUENCE

STAGE	MATERIAL / METHOD
1 | Assess	Inspect concrete or masonry for contamination, moisture and absorption.
2 | Clean	Remove dust, dirt, grease and salts; water-jet aged surfaces as required.
3 | Dry & trial	Let the substrate dry and apply a representative compatibility test area.
4 | Apply	Flow coat, roll or low-pressure spray at 0.20 L/m² minimum.
5 | Inspect	Maintain a mirror-wet film for ≥5 s; check continuity and coverage.

SUBSTRATE PREPARATION

Concrete and masonry must be clean, structurally sound and dry before treatment. Remove dirt, oil, grease, dust, curing compounds, existing incompatible coatings and other contamination that could prevent penetration. Older surfaces may be water-jetted to remove accumulated salts and dirt, then allowed to dry completely.

SUBSTRATE COMPATIBILITY & STAIN EXPOSURE

The treatment is intended for concrete and masonry surfaces exposed to rain, salts and incidental staining. The specified stain-repellency profile includes motor oil, gasoline, kerosene and diesel. These are surface-protection criteria, not approval for continuous chemical immersion or spill containment.

EXPOSURE / SURFACE	PROTECTION / APPLICATION GUIDANCE
Motor oil, gasoline, kerosene, diesel	Stain-repellency performance criteria; confirm by approved trials.
Bridge, marine and highway concrete	Limit water and chloride ingress into prepared sound substrate.
Vertical masonry / concrete	Work from bottom upwards for uniform absorption.
Parking decks / exposed slabs	Address cracks and waterproofing requirements independently.

Carry out a representative site trial to check absorption, the final appearance and any interaction with previous treatments. On slabs, verify the waterproofing design and avoid trapped moisture that could cause osmotic blistering.

APPLICATION METHOD & COVERAGE

Apply one continuous, uniform coat by flow-coating, roller or low-pressure spray with a suitable nozzle (approximately 5 mm). Use at least 0.20 L/m² per coat. Maintain a mirror-wet liquid film in contact with the surface for at least 5 seconds to enable absorption. On vertical surfaces, work from the bottom upward.

Installation & Product Support

KREVO Guard Penetrating Sealer | Application procedure, limitations, safety and global contacts

APPLICATION PROCEDURE

- Inspect the substrate and conduct a trial area to confirm cleanliness, dryness, absorption and appearance.
- Remove loose deposits and contaminants; water-jet aged concrete or masonry if necessary and allow to dry.
- Protect adjoining surfaces from overspray and prepare a roller, flow-coating device or low-pressure sprayer.
- Apply uniformly at a minimum 0.20 L/m^2 and maintain a mirror-wet surface for at least 5 seconds.

FINISHING & PERFORMANCE CHECKS

- On vertical surfaces start at the lowest level and move upwards to improve consistent saturation.
- Avoid streaks, missed areas and dry patches. Very porous substrates may need additional product.
- Inspect treated areas after application and record coverage, surface condition and weather conditions.
- Allow the treatment to develop protection without contamination; confirm any overcoating compatibility separately.

LIMITATIONS & SERVICE NOTES

- Do not apply in rain, or when wind speed exceeds 20 km/h.
- Do not apply at temperatures below +5 °C; prepare and dry washed surfaces before application.
- Porous or highly absorbent concrete may need more than the minimum theoretical consumption.
- On exposed slabs, ensure an appropriate waterproofing strategy is in place to avoid moisture-related blistering.
- This penetrating treatment is not a crack-bridging membrane or a substitute for repair of active leaks.

HEALTH, SAFETY & ENVIRONMENT

For professional industrial use. Consult the current KREVO Safety Data Sheet prior to handling or application. Use suitable eye protection, gloves and workwear; control spray drift, ventilate work areas and prevent spills from entering drains or surface water. Dispose of residues and containers in accordance with local regulations.

QUALITY & PRODUCT INFORMATION

The protective effect depends on the actual KREVO formulation, substrate porosity, surface preparation, application rate and weather. Numerical criteria, solvent/VOC claims and chemical resistance characteristics must be confirmed against current KREVO product testing and approved project requirements before formal manufacturer certification.

KREVO | GLOBAL CONTACTS

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