



Silane/Siloxane Sealing ULTRAGUARD

Penetrating, Water Repellent

DESCRIPTION

ULTRAGUARD is a water-based, penetrating sealing compound for concrete and masonry surfaces. ULTRAGUARD is water-repellent, specifically designed to reduce the intrusion of water and chlorides into the substrate. This proprietary blend of silane and siloxane penetrates into the pores of the concrete and masonry to reduce scaling caused by deicing salts as well as protecting vertical masonry surfaces from the ingress of water. Good concrete and concreting practices must be used, as ULTRAGUARD will not be effective on improperly designed, placed or cured concrete.

USES

ULTRAGUARD protects concrete and masonry surfaces, including concrete parking lots, driveways, walkways, and vertical walls. The product is designed to provide lasting protection from de-icing chemicals and moisture intrusion. The product can be used on both horizontal and vertical surfaces. Suitable application includes architectural concrete, concrete block, split-face block, pavers, stucco, porous and dense brick, clay tile, etc.

FEATURES/BENEFITS

- When properly applied ULTRAGUARD does not form a film - it penetrates the surface to form a barrier to reduce moisture penetration.
- Leaves no gloss or shine.
- Transparent, non-staining.
- Breathable - does not trap moisture.
- Reduces chloride penetration into concrete and masonry surfaces.
- Helps protect properly placed and cured concrete and masonry from scaling and freeze/thaw damage caused by de-icing chemicals.
- Water-based, VOC-compliant.
- Allows masonry to breathe.

PACKAGING

15L Pails
4L PAILS

COVERAGE

Coverage rate is approximately 1.2 - 6.1 m²/L. Coverage is approximate and may vary depending on surface finish/texture, concrete condition, climatic conditions, etc. Always apply to a test area first to determine actual coverage rate before full-scale application.

SHELF LIFE

When stored indoors in original, unopened containers at temperatures between (4° - 32° C), optimum performance and best use is obtained within one year of date of manufacture.

SPECIFICATIONS

- ◀ Complies with all current federal, state, and local maximum allowable VOC requirements, including National EPA VOC Emission Standard for Architectural Coatings, CARB, LADCO, OTC Phase I and II, and SCAQMD.

TECHNICAL & PERFORMANCE DATA *

Property	Test Method	Test Data
Appearance	Visual	Milky white emulsion
Weight per l:	ASTM D1475	8.30
Flash point, °C:	ASTM D98	>100
VOC content, g/L:	ASTM D6886	25.15
Dry to touch, hours:	ASTM C309	1-2
Scaling reduction:	ASTM C672	Reduces scaling at 50 cycles

*All technical data is typical information and will vary due to testing methods, site conditions, temperature, curing, procedures, batching, and expected variations in naturally occurring raw materials. Statistical differences in test results should be anticipated. On site testing results may not correlate to published laboratory results due to testing variations



APPLICATION

Surface Preparation: Protect people, vehicles, property, plants, and all surfaces from product, splash, residue, and wind drift. Surfaces must be structurally sound, clean and free from dirt, bitumen, efflorescence, oil, curing compounds, form oil, and other foreign matter. Masonry joints must be checked and repointed where necessary. All wall and roof flashings, caulking, and sealants must be in good condition and the surface fully cured and thoroughly dry before application. Though ULTRAGUARD may be applied to slightly damp surfaces, best performance is achieved on a clean, thoroughly dried and absorbent surface. Excessive moisture inhibits penetration, reducing the service life and performance of the treatment. Always test for compatibility. For optimum results, wait 14 - 28 days before applying ULTRAGUARD to new concrete and masonry. For optimum performance, the moisture content of the substrate must not exceed 4%.

Surface and Air Temperatures: Optimum surface and air temperature is 4 °C and rising and 35° C and falling during application. If freezing conditions exist before application, let surface to receive treatment thaw.

Test Application: Always perform a test application for proper penetration on each type of surface prior to full-scale application to determine suitability and final appearance. Test using the recommended application instructions. Let area dry thoroughly before inspection.

Application Method: can be sprayed, brushed or rolled.

Horizontal Application: Amply saturate the surface with ULTRAGUARD. Use enough to completely wet the surface. Saturate from the bottom up. Do not let the product puddle on the surface or dry on the surface. Roll or brush out puddles. DO NOT OVERAPPLY. After 5 - 10 minutes, remove all excess sealer from the surface. On highly permeable surfaces, additional coats may be necessary.

Vertical Application: Apply from the bottom up. To ensure proper penetration, sufficient material should be applied to allow a flood of material to run down at least 160 – 240mm below the spray point. Allow the material to penetrate for 10 - 15 minutes, then apply a second application “wet on wet.” The second application will require less material than the first.

NOTE: Hot, windy conditions will evaporate the water

carrier, reducing penetration and performance. On hot, windy days, apply early in the day and in shade, if possible.

Protect surfaces from rainfall for six hours following treatment. Many surfaces need several days to develop optimum water repellency.

Cleanup: Immediately clean tools, equipment, and overspray with soap and warm water.

PRECAUTIONS

DO NOT DILUTE OR ALTER. MIX THOROUGHLY PRIOR TO USE. DO NOT FREEZE. ULTRAGUARD will not hide existing surface stains. Do not apply to surfaces with temperatures of <5° C or >35° C. Prevent from being spilled or over sprayed onto nearby water sources. Temporary darkening of some substrates may occur. Protect surfaces from rainfall for a minimum of six hours following treatment. If rainfall occurs and surface turns white, thoroughly flush surface and reapply product when dry. For above grade applications. ULTRAGUARD will not prevent water penetration through structural cracks or open joints. Not intended for use on surfaces that will be constantly submerged in water. Apply a small test patch application prior to full- scale application. Refer to Safety Data Sheet for complete health and safety information.