



500 Farmers Market Rd., # 18
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Duraseal Plus

General Information and Installation Guidelines

Duraseal Plus is a waterborne treatment for concrete and masonry based on a mixture of high quality silane and siloxane and is used for impregnating and priming mineral surfaces.

Duraseal Plus is a deep penetrating formula that is easy to use, is VOC compliant, breathable, nonflammable, non-yellowing, and does not alter the appearance or texture of the surface after treatment. It reduces capillary absorption but does not clog pores which results in a breathable surface.

Duraseal Plus is designed for application to non-load bearing above grade vertical and horizontal surfaces such as Limestone, Travertine, concrete, bricks, light weight concrete, concrete block, mortar, porous brick, precast, pre-stressed, poured-in-place, and concrete wearing surfaces. It is suitable for use on interior and exterior walls, sound barriers, sidewalks, ramps, parking decks, and industrial floors.

- Ready-to-use
- Non Slippery
- Water based formula
- VOC < 6 grams/liter
- Colorless, odorless
- Non-glossy
- Paintable
- Resists alkalinity
- Resists chloride salts
- Won't change texture
- Breathable

Surface Preparation

Duraseal Plus can be applied to clean unsealed porous surfaces, (free of dirt, waxes and oils) that are dry and sound. New concrete must be cured for 28 days prior to coating. Cracks and joints must be sealed prior to application. Duraseal Plus must be able to penetrate into the surface. Test the substrate first by sprinkling with water. If the surface turns dark with the water Duraseal Plus can be applied. Clean exterior surfaces by pressure washing to remove dust, mildew, sand or other foreign matter. Vacuum and damp-mop interior surfaces. Remove efflorescence with sulfuric or dilute muriatic acid. If acid is used, it must be completely neutralized before applying Duraseal Plus. Rinse the surface thoroughly after chemical cleaning. Use a degreaser to remove oil or grease stains. A dry substrate is required to achieve proper penetration. Allow washed surfaces to dry three days prior to coating. Surfaces should be dry 24 hours prior to application. Climates in freezing temperatures should allow sufficient time for surfaces to warm. Do not apply if ambient air or surface temperatures are below 45° F. Do not apply if rain is expected within 12 hours. Surfaces must be hard and firm and free of defects. If the surface can be scraped with a flat screw driver, do not apply. Deteriorated concrete should be removed and repaired prior to application; joints and cracks must be properly sealed or filled. Protect all adjacent and underlying surfaces from over spray, drips, runs, and accidental spills.



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Product Application Guidelines

Duraseal Plus is ready-to-use and should not be diluted. Agitate gently before use. Avoid application in windy weather. In hot weather, lightly spray surface with water to cool the surface to prevent flash drying. Duraseal Plus is best applied by garden-type sprayer and small areas can be applied by brush or roller. Do not use airless or similar high pressure spray applicators. Hold spray tip 12-18 inches from the surface, start at the bottom of the wall and work up with a uniform overlapping horizontal spray pattern, ensure run down of 6 – 8 inches. Take special care to saturate mortar joints. Do not stop or interrupt the application in the middle of the wall. Stop application only at expansion joints, walls, or breaks defined with masking. Uneven application may result in blotchy or irregular appearance. Water repellency properties will fully develop in 24 hours to 5 days after application depending on ambient conditions.

Horizontal Surfaces

Duraseal Plus can also be used to on horizontal concrete floors or other masonry surfaces. Apply by roller or garden-sprayer. Do not pour product onto horizontal surfaces to spread. Apply sufficient material so that surface remains wet before material is absorbed. After 3 minutes or before drying, back-roll remaining pools or puddles with -roller to prevent excess material from drying on the surface. Material that is not absorbed should be back rolled or brushed out to avoid build up. A wet on wet second coat may be applied to maximize protection only while the first coat is still damp. Protect shrubbery, plants, grass, glass, metal, and asphalt surfaces during application.

Coverage

One saturation coat is normally sufficient for vertical, smooth dense concrete or masonry. For textured or horizontal surfaces, a second coat may be required. A second wet on wet coat can only be applied while the first coat is still damp. Typical coverage rates listed below are approximate and for estimating purposes only. The surface texture can greatly affect application rates. Always apply material to test area prior to application to determine actual coverage rate.

Limitations

Duraseal Plus does not provide protection against hydrostatic water pressure, efflorescence caused by interior moisture sources, or moisture from cracks or expansion joints. Duraseal Plus will not fill large pores, bridge cracks, seal inaccessible areas, or compensate for flawed construction. Do not tint or use on glazed or previously sealed surfaces. A test mock-up should always be performed and approved first.

Clean Up

Clean hands and tools with soapy water. Clean drips, runs and over-spray residue while still wet, using detergent and water. Duraseal Plus will not etch glass but spills and over spray should be removed with a damp cloth while wet. Dried material may require mechanical abrasion to remove. Clean application and spray equipment with fresh water immediately after use.

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DURASEAL PLUS PROPERTIES

Chemical Type	Modified Silane / Siloxane
Color	White liquid, Colorless when dry
Dispersion Type	Water
Weight Per Gallon/Liter	+/- 8.40 lbs. / 1.007 kg/Liter
Active Content	+/- 10%
pH	+/- 8
VOC (ASTM 5095)	5.63

Typical Coverage Rates Square Feet per Gallon (M2/Liter) *

1st Coat	50-450 sq.ft./gal. (1.2 – 11 M2/L)
2nd Coat	75-400 sq.ft./gal. (1.8 – 9.8 M2/L)

Typical Dry Times at 70-80°F (21-27°C) @ 50% Relative Humidity

Foot Traffic	8 Hours
Vehicle Traffic	24 hours
Protect From Rain	12 hours
Shelf Life	12 months unopened in protected storage.
Flash Point	>200°F (93°C)
Safety Information	For additional information, refer to SDS. As with this or any other chemical, proper precautions are recommended. Consult SDS and other product information for further information.

* Actual application rates depend on porosity, texture, moisture, and other factors.

KEEP FROM FREEZING
REFER TO SDS FOR ADDITIONAL INFORMATION
WARNING! KEEP OUT OF REACH OF CHILDREN
READ AND UNDERSTAND ALL INSTRUCTIONS PRIOR TO USE



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