

DEFY MASONRY CHIMNEY WATER REPELLENT

PRODUCT DATA

DEFY Masonry Chimney Water Repellent

MANUFACTURER: SaverSystems

Richmond, IN 47374

800-860-6327

Fax 765-935-4999

www.defyinfo.com

DESCRIPTION

DEFY Masonry Chimney Water Repellent is a penetrating, V.O.C. compliant, water repellent which contains a proprietary modified siloxane. This water-based siloxane penetrates masonry up to 1/4 inch or more depending on surface porosity and moisture content at the time of application.

DEFY Masonry Chimney Water Repellent reacts with the minerals in masonry in the presence of ultraviolet light and atmospheric moisture. This reaction forms strong permanent bonds beneath the surface and creates a hydrophobic zone that prevents water molecules from penetrating, while allowing free migration of water vapors. The chemical bonds formed in this process allow DEFY Masonry Chimney Water Repellent to become an integral part of the substrate and provide long-term water repellent protection.

USES

DEFY Masonry Chimney Water Repellent protects most vertical and horizontal exterior, above-grade masonry surfaces including: Adobe; Architectural concrete, precast or cast-in-place; Clay Brick; Mortars; Natural Stone; Limestone; Granite; Sandstone; Terra Cotta; Exposed Aggregate Products; Portland Cement Stuccos and Concrete Masonry Units. Natural substrate color and surface textures are unaffected, with little or no gloss created. Slight darkening may occur on dense surfaces. Testing is recommended before treating any surface to ensure desired results.

BENEFITS

- Non-Glossy
- 100% Vapor Permeable
- Efflorescence/Stain Protection
- Protection from Acid Rain and Waterborne Chemicals
- Mildew/Fungus Resistant
- Freeze-Thaw Protection

DIRECTIONS FOR USE

Surface and air temperatures should be a minimum of 40°F. Do not use on asphalt-based material and surfaces. Do not apply to frozen or frost covered surfaces. Application must be to clean, sound, dry to slightly damp surfaces. Do not apply to wet or water saturated surfaces, or when rainfall is expected within six hours.

Preparation: Remove dust, dirt, grease, oils, efflorescence, wax, curing compounds, coatings or other foreign matter that might block or interfere with product penetration. Cure new masonry a minimum of 28 days, and at least 72 hours after repairs or tuck pointing before applying product. Test a small area of surface before starting general application to assure desired results and coverage rates. Provide adequate ventilation if applied indoors. Make all necessary repairs, including defects, which allow water to enter the wall assembly such as: structural cracks, faulty roofing, copings, flashings, expansion joints, mortar joints and sealants.

APPLICATION

Vertical: Apply from bottom up using a low pressure sprayer (10-25 psi) with a fan type nozzle. Flood surface until excess runs down six to

eight inches below spray. To assure optimum performance, a wet on wet application is recommended; apply second coat within three to five minutes. A wet treated surface may be agitated with a soft bristle brush to ensure even distribution and greater penetration. Protect adjacent paint films, windows, plant life, asphalt-based material and all non-targeted surfaces from overspray. Remove overspray immediately with soap and water.

Horizontal: Apply a single application with low pressure spray, or pour from container so that surface remains wet for two to three minutes before final absorption. Avoid puddling or ponding; brush or broom to spread material until it thoroughly penetrates the surface. Block all drains and use absorptive coverings to contain run-off of excess material. Use soap and water to remove overspray as soon as possible.

Drying time: Two to six hours, depending on temperature and humidity.

Clean-up: Thoroughly rinse spray equipment with clean water. Clean rollers with soap and water. Rinse thoroughly.

Note: Over application of material may cause darkening of surface. Product will cause stains left on surface being treated to darken. Remove all stains before applying.

Coverage: Coverage rates will typically range from 90-150 sq. feet per gallon depending upon surface porosity. See chart on back.

CAUTIONS

Keep out of reach of children. Fire hazards are eliminated since DEFY Masonry Chimney Water Repellent is water-based and does not contain combustible or flammable, volatile organic solvents. Eye and skin irritations are greatly reduced. There is less risk to surrounding vegetation during application, and overspray on non-targeted areas can be easily removed with soap and water.

Respiratory protection is not generally required during normal use and handling. Avoid breathing mists; the need for respiratory protection should be evaluated if material is sprayed in heated or poorly ventilated areas. The use of protective gloves and chemical splash goggles is recommended. Wash thoroughly after handling.

Caution: Accumulation of product on ladders, scaffolding, etc. may result in a slippery surface.

First Aid: If swallowed, drink milk or water; do not induce vomiting. Call physician immediately. For skin contact, wash thoroughly with soap and water; if irritation persists, get medical attention. For eye contact, flush immediately with water, then remove any contact lenses. Continue to flush eyes with water for at least fifteen minutes. For additional information for this product, consult the Material Safety Data Sheet.

LIMITED WARRANTY

Our recommendations for use of this product are based upon tests believed to be reliable. Since field conditions vary widely, the user must determine the suitability of the product for the particular use and specific method(s) of application. Due to the fact that SaverSystems has no control over surface preparation and application methods, no guarantee as to results is offered, expressed or implied. SaverSystems warrants this product to be free from defects. SaverSystems liability shall be limited in all events to supplying enough product to re-treat the specific areas to which defective product was applied.

This warranty does not include the cost of labor for application. SaverSystems shall not have any other liability including direct, incidental, or consequential damages. Some states do not allow the exclusion of incidental or consequential damages, so this limitation or exclusion may not apply to you. This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

PACKAGING

Available in 1 gallon recyclable plastic containers.

TRANSPORT AND STORAGE

DEFY Masonry Chimney Water Repellent is not considered hazard-

ous under Department of Transportation (DOT) regulations. Do not stack pallets. Keep from freezing.

MAINTENANCE

Remove all contaminants which might stain or abrade treated surfaces as quickly as possible to minimize staining or abrasion. Occasional cleaning with mild detergent and water will generally restore treated surfaces to original appearance.

PHYSICAL PROPERTIES

COLOR	Milky white
SOLVENT	Water
SPECIFIC GRAVITY, AT 25° C	1.00
WEIGHT	8.34 #/gallon
FLASH POINT	None
PENETRATION	1/16" - 1/4" (depending on substrate)
VOC CONTENT (EPA METHOD 24)	50.6 gr/ltr (422 #/gallon)
SHELF LIFE	18-24 months in original sealed container
YELLOWING	None
SURFACE APPEARANCE AFTER APPLICATION	Unchanged

TECHNICAL DATA

TEST	DESCRIPTION	RESULTS
ASTM C 67-91 Section 7	% reduction in absorption on brick during immersion in water for 24 hrs.	96.9%
ASTM C 140-91	% reduction in absorption on 3000 psi concrete during immersion in water for 24 hrs.	91.29%
ASTM C 97-90	% reduction in absorption on Indiana limestone during immersion in water for 48 hrs.	81.7%
Federal Specification SS-W-110-C-3.5	Treated mortar cubes shall have less than 1% absorption after immersion in water for 72 hrs.	92%
OHD-L-35 ASTM C 67-91 Section 10	Water vapor transmission Resistance to efflorescence No efflorescence on treated specimens	100%
ASTM G 53-88	Accelerated weathering (QUV) 3000 hrs.	No loss in water repellency
ASTM 514-86	% reduction of leakage through masonry walls,	99.9%

COVERAGE RATES

Brick Wall	100 - 150
Concrete Block	50 - 75
Concrete	75 - 150
Stucco	75 - 150
Limestone/Sandstone	75 - 150