



The Elements

PRODUCT DATA

PRODUCT NAME DEFY Solvent-Base Water Repellent®

MANUFACTURER

SaverSystems®
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DESCRIPTION

DEFY Solvent-Base Water Repellent is a penetrating water repellent which contains a proprietary silane/siloxane blend in a mineral spirits carrier. The modified siloxane penetrates most masonry and concrete pores and capillaries up to 1/4 inch or more depending on surface porosity and moisture content at the time of application.

DEFY Solvent-Base Water Repellent reacts with the silica in concrete and 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 the product to become an integral part of the substrate and provide long-term water repellent protection.

USES

DEFY Solvent-Base Water Repellent can be used on most vertical or 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. It is an ideal maintenance product for previously treated surfaces. It can be applied over siliconized acrylic concrete stains.

Natural substrate color and surface textures are unaffected, with little or no gloss created, however, over-application can cause substrate darkening. Slight darkening may occur on some adobe, limestone, or very dense surfaces. Testing is recommended before treating any surface to ensure desired results.

Surfaces treated with DEFY Solvent-Base Water Repellent may be painted with many oil-base paints. Testing is always necessary to ensure adhesion and compatibility. **Note:** Painting over DEFY Solvent-Base Water Repellent substantially reduces the vapor permeability of the product.

BENEFITS

- 100% Water Vapor Permeable
- Stain/Efflorescence Protection
- Protects from Acid Rain/
De-icing Chemicals
- Mildew/Fungus Resistant
- Freeze/Thaw Protection

DIRECTIONS FOR USE

Weather Conditions: Do not proceed with an application of water repellent when rain and/or temperatures below 40°F are predicted within 4 hours after application, when substrate is frozen, or when surface temperature is less than 40° F or higher than 100° F. Do not proceed with application unless surface is thoroughly dry.

Surface Preparation: Any surface to receive an application should be clean and dry. Absorbed moisture should not be present. New concrete should be cured for a period of not less than 28 days (masonry-14 days). If necessary, the surface should be thoroughly cleaned to remove dust, dirt, oil, wax, curing compounds, efflorescence, coatings and other foreign materials. The surface may need to be swept and/or washed to remove the above mentioned foreign materials in order to expose a clean

and sound surface. (If wash method is used, allow 3 days drying time). Chemicals or other cleaning compounds used to facilitate the removal of these foreign materials must be thoroughly removed before applying the water repellent.

APPLICATION METHODS

Apply with an airless sprayer or with low pressure spray equipment. Apply two flood coats, wet on wet, saturating the surface until solution runs or stands. Vertical surfaces should be treated from the bottom up. Proper quantities are being applied when the excess solution runs six to eight inches below the spray pattern before penetrating the surface which has just been sprayed. Proper quantity on horizontal surfaces is indicated when solution stands (ponds) for 60 seconds before penetrating. Coverage will vary with absorbency of surface textures. Agitate occasionally. Over-application can cause substrate to darken.

APPLICATION PRECAUTIONS

Typical areas which need protection from overspray are painted finishes, metal, glass, shingles, and other dense non-porous surfaces which may accumulate non-absorbed residue and leave a light haze or spots which are difficult to remove if allowed to dry. Clean overspray or spillage immediately before evaporation of the solvent, with a dry cloth. Protect materials which can be damaged such as: glazing, plastic, lexan, shrubs, plant life, asphaltic materials, membrane roofing, bare or primed metal surfaces to be painted, other non-masonry, dense and non-porous surfaces. Certain types of stucco, architectural concrete, and stabilized adobe may "bleed" in the presence of solvents, which could result in discoloration. Test for compatibility in an inconspicuous area before treating any surface.

COVERAGE: Most surfaces: one coat yields a range of 100-120 sq.

ft. per gallon, depending on porosity of substrate.

CLEAN-UP: Thoroughly drain spray equipment and rinse nozzles with mineral spirits.

CAUTION

CONTAINS PETROLEUM DISTILLATES.

Contains combustible liquid and vapor. May be harmful if inhaled. May cause eye and skin irritation. May be harmful if swallowed. May cause respiratory tract irritation. Keep away from heat and flame. Avoid contact with eyes, skin and clothing. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. Do not transfer to unlabeled containers. Keep away from children. **BEFORE USING:** Read entire label. For outdoor use only. Prevent build up of vapors. Do not smoke, extinguish all flames and pilot lights and turn off stove, heaters, non-explosion proof electrical equipment and other sources of ignition during use and until all vapors are gone. Avoid breathing of vapor or spray mist. Wear a NIOSH/MSHA approved respirator in accordance with OSHA Standard 29 CRF 1910, 134 (see your safety equipment supplier). Keep container closed when not in use. In case of fire, extinguish with foam, CO2, or dry chemical,

water fog or spray. In case of spillage, absorb and dispose of in accordance with local applicable regulations. Do not reuse this container.

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 metal containers.

TRANSPORT AND STORAGE

Transport should be in compliance with all regulations under the Department of Transportation (DOT). For help during transportation emergencies, call CHEMTREC, 1-800-424-9300 (24 hours). Storage should be in compliance with all local fire codes and regulations. Under environmental protection agency (EPA) regulations, it is a hazardous material. Under the Occupational Safety and Health Administration (OSHA), it is a combustible material. Do not stack pallets more than 2 high. Do not apply direct heat to containers. Do not store in temperatures greater than 100 F. (38 C). Can be stored in unheated, ventilated areas.

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	TECHNICAL DATA	COVERAGE RATES (Sq./Ft. per coat)
COLOR..... Clear	Section 7	Brick Wall (porous).....90 - 110
COMPOSITION..... Proprietary Modified Siloxane	ASTM C 67-91 96.8% (Water absorption reduction)	Brick Wall (dense) 100 - 150
SOLVENT..... Mineral spirits	Section 6	Concrete Block..... 40 - 80
SPECIFIC GRAVITY, AT 25° C .. (.785)	ASTM C 140-91 90.86% (% Reduction in Absorption on Brick 24 hours immersion)	Concrete (porous) 75 - 125
DENSITY.....(6.55 #/gallon)	Federal Specification	Broom Finish 100 - 125
FLASH POINT142° F (Minimum temperature at which fuming is sufficient for ignition.)	SS-W-110-C-3.5.....(.76% average absorption)	Slick Trowel Finish..... 125 - 200
PENETRATION 1/16" - 1/4" (approximately—depending on substrate)	OHD-L-35.....100% (Water vapor permeable)	Stucco 60 - 100
VOC CONTENT (EPA METHOD 24). 723 gr/ltr (6.03 #/gallon)	Section 10	Adobe.....90 - 110
SHELF LIFE 18 months in original sealed container	ASTM C 67-91 Excellent, (No efflorescence on treated specimens)	Limestone..... 80 - 120
YELLOWING None	ASTM G 53-88 (3000 hrs.)..... No loss in water repellency	Sandstone 80 - 120
SURFACE APPEARANCE AFTER APPLICATION..... Unchanged to slight darkening	ASTM E 514-86 100% (Reduction of leakage through masonry walls)	Granite Polished..... 500 - 700
		Most other cementitious products 100 - 150