

D-SHIELD

Chemical Reactive Concrete Curing Compound & Water Repellent

Product Description

D-Shield is a dual functioning chemical reactive curing compound and water repellent with a low viscosity for better penetration on concrete substrates. D-Shield's unique formulation provides superior water and salt resistance compared to standard sealers used to protect exterior concrete. Improved resistance to de-icing road salts, salt water pool systems, rain, sleet and snow are achieved with our advanced chemical reactive formula. D-Shield also meets cure & seal specs ASTM C-309, Type 1, Class A & B, AASHTO Spec M-148, Type 1, Class A & B so it can be applied directly to fresh poured concrete after all surface water has dissipated.

Benefits & Features

- Will not change the color of the concrete
- Minimizes damage due to water and salt water from de-icing road salts on freshly poured or existing unsealed concrete
- Excellent penetration and adhesion to clean, unsealed new or old concrete
- Dual functionality combination of curing agent and water repellent

Recommended Applications

D-Shield is recommended for use on new or existing unsealed pool decks, broom finish concrete, & other unsealed porous concrete & masonry surfaces. Other uses may be acceptable.

Technical Information

Solids	N/A	Wet Appearance	White to Slightly Hazy
Drying Time	30 min. - 1 Hour	Dry Appearance	Clear and Low Gloss
Re-Coat Time	30 Days	VOC Content	<100 g/l
Foot Traffic	4-6 Hours	Blush Resistance	Great
Wheel Traffic	24-48 Hours	Solvent Resistance	None
Application Temp	50°F - 80°F	Concrete Adhesion	Excellent

***Please note that low air and/or concrete temperatures and/or relative humidity may extend drying times. Follow recommended coverage rates for best results.

Specifications/Compliances

- ASTM C 309, Type 1, Class A & B • AASHTO Specification M-148, Type 1, Class A & B

Approximate Coverage Rates

Broom Finished Concrete (unsealed)	200-300 ft ²
Porous Masonry Surfaces (unsealed)	150-300 ft ²

*Coverage rates vary depending upon surface porosity and texture, and application method. Excessive build up should be avoided.

Shelf Life

D-Shield has a shelf life of one year from manufacture date in it's original, sealed, unopened container.

Packaging

D-Shield is packaged in 1 gallon cans, 5 gallon pails, and 55 gallon drums.

ORRVILLE

133 North Kohler Road
Orrville, Ohio 44667
(330) 682-5678

CLEVELAND

7941 Granger Road
Cleveland, Ohio 44125
(216) 573-0770

COLUMBUS

690 Harrison Drive
Columbus, Ohio 43204
(614) 253-3326



Instructions for Use

Surface Preparation: Concrete surface must be clean and free of all contaminants and water. Do not apply if rain is forecast within 24 hours. If the surface is not clean and free of all containments, the sealer may have adhesion and reaction issues. On fresh concrete the bleed water must be off the surface. Bleed water can inhibit the functions of D-Shield.

Always test surface porosity prior to application. The proper application surface should allow water to quickly soak into the substrate.

Substrate temperature and ambient temperature must be no less than 50 degrees F and not exceed 80 degrees F. If applied outside these limits the sealer may not achieve adequate film formation. The material performs best when it's temperature at the time of application is between 60°F - 70°F.

Mixing: Although not necessary, we recommend lightly stirring prior to using. Material may separate during long term storage. For use as a curing compound and water repellent on freshly placed concrete, ensure all bleed water has dissipated prior to application.

Application: Apply using a 3/8" to a 1/2" long nap roller cover using long even uniform strokes at approximately 150-300 square feet per gallon depending on job requirements, porosity and texture of substrate. An airless or low pressure sprayer may be used as well. Upon initial application, D-Shield will create a slightly white surface that will absorb quickly into the concrete, typically within a minute or two. Thick or puddle areas should be spread to areas where absorption can continue. Failure to quickly remove puddle areas may result in the presence of dry residual sealer that is not beneficial and may yield an undesirable aesthetic look. If desired, a secondary application may be applied after 24 hours of first application if water absorption is still feasible, but is typically not required for this product.

Please Note: It is always recommended to test the product in a small, inconspicuous area (on the same concrete substrate) for desired results prior to application. Coverage rates may vary for all coatings and substrates depending on porosity, density, texture, etc. If applying by spray method, extended coverage rates may be achieved, but be aware that less material will be applied and inadequate film formation or performance expectations may be limited. DO NOT USE ON BRICK.

Clean-Up

Use soap and water for clean up. Dispose of containers in accordance with local and federal regulations.

Product Removal

Dried, cured sealer may be removed with a commercial paint stripper, such as Nock Off or by using a diamond grinding method, sandblasting method or similar mechanical action, however, it may be impossible to remove all of the product due to it's excellent penetration properties.

Precautions & Limitations

- D-Shield may freeze during storage or transportation. Freezing may damage sealer. Do not allow to freeze!
- All bleed water should gone from surface prior to application on fresh concrete.
- Water repellency is optimum after 48 hours.
- It is not recommended to apply carpet, tile, and other types of floor adhesives on top of D-Shield.
- Coverage rates depend upon many conditions including application method, surface porosity, applicator, etc.
- D-Shield works best when applied in one coat @ 150-200 square feet per gallon
- This product should not change the slip coefficient of the concrete surface.
- D-Shield is not resistant to brake fluid, gasoline, and many similar products.
- It is not recommended to thin D-Shield. Improper thinning may cause sealer to not perform adequately.
- D-Shield may slightly change the surface of a new and existing concrete slabs. Test prior to use.

Special Notes

Please consult Safety Data Sheet (SDS) and read warranty information prior to use. This information can be requested by contacting customer service at 330-682-5678.

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