



HYDROSEAL

CRYSTAL CLEAR EPOXY CONCRETE SEALER

FORMULATED FOR THE APPLICATOR

- Cures at 50°F
- No Lap Lines
- Easy 1:1 Mix
- Long Pot Life
- Better Flow
- Extremely Durable
- Chemical Resistant
- Water Based
- Low VOC
- USDA/FDA Compliant

PRODUCT DESCRIPTION

HydroSeal is a clear two-component low VOC waterborne epoxy coating that offers a long pot life with fast dry times. The coating cures to a semi-gloss, chemical and abrasion resistant film. HydroSeal can be used in conjunction with HydroStain and HydroColor. Refer to individual product data sheets for complete system information.

PACKAGING

1 gallon, 2 gallon, and 10 gallon kits

MIX RATIO

1:1 by volume

COVERAGE

Approximate coverage rates:
Primer 250-500 square feet per gallon
Top coat 400-600 square feet per gallon

*Actual coverage rates will vary based porosity and texture of substrate.

APPLICATIONS

HydroSeal is intended for application over properly prepared concrete. This product is engineered for use as a hard-wearing interior coating system, suitable for both commercial and residential settings.

SURFACE INSPECTION

The concrete substrate must be structurally sound and free of surface contaminants. Dust, paints, oil, grease, curing agents, and other foreign materials can prevent proper adhesion. Concrete must be a minimum of 2,500 PSI and have sufficient porosity to allow the product to penetrate. Concrete must cure a minimum of 7 days prior to application. Test existing concrete for moisture, efflorescence, and hydrostatic pressure.

MOISTURE

- Do not apply if moisture emissions exceed 5 lbs./1,000 square feet/ 24 hours (ASTM F1869).
- Do not apply if relative humidity (RH) exceeds 75% (ASTM F2170).
- * Substrate moisture testing must follow strict ASTM standards for accurate, reliable results.
- * ASTM F1869 and ASTM F2170 are designed for climate-controlled environments; when used in unacclimated conditions, testing may yield misleading data and cannot be relied on to predict future coating performance.

PREPARATION

Coating adhesion and performance are highly dependent on surface preparation. The substrate must be free of laitance, concrete sealers, curing compounds, paint, oil, grease, dirt, debris, and/or other foreign materials. Concrete must be cleaned properly prior to product application. Mechanical surface preparation may be required to ensure proper adhesion.

MIXING

In a clean bucket combine equal parts A and B (by volume). Thoroughly mix with a low speed drill for 3 minutes. Scrape sides of bucket when mixing to ensure material is fully blended.



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THINNING

Product is designed for neat application. HydroSeal can be thinned up to 25% by volume for use as a primer. Dilution rate varies depending on substrate porosity.

APPLYING PRODUCT

Step 1 Primer Coat: HydroSeal can be sprayed or rolled onto concrete surfaces. If sprayed the material should be backrolled with a 3/8" nap, non-shedding roller cover to ensure even and smooth coverage.

Step 2 Sealer/Top Coat: Additional coats must be applied within 24 hours of the primer coat application. After 24hrs lightly abrade for adhesion. Pour a ribbon of material and spread evenly with a roller. Cross-roll using a 3/8" nap, non-shedding roller. Do not allow the material to puddle. Provide even and consistent coverage across the entire area. On extremely porous floors additional top coats may be necessary to provide an even and consistent finish.

DRY TIME

HydroSeal may be re-coated once the surface is dry to touch, typically within 45 minutes to 2 hours. Additional coats must be applied within 24 hours of the previous coat. In ideal conditions light foot traffic can usually be permitted within 2-3 hours, normal foot traffic in 24 hours, and vehicle traffic in 48 hours. Always check the surface prior to allowing any type of traffic. Dry times are based on an average temperature of 70°F and 50% humidity. Temperatures and humidity variations will affect the dry and cure times.

CLEAN UP

Uncured material can be removed with soap and water. Leftover mixed epoxy will fully harden and can be discarded according to local disposal regulations.

SLIP PRECAUTION

USST recommends the use of slip-resistant additives in coatings that are exposed to wet, greasy, oily, or slippery conditions. It is the responsibility of the end user to provide a flooring system that meets current safety requirements. Third-party coefficient of friction testing can be performed by the owner at their own expense to ensure compliance of specific requirements. USST or its sales agents will not be responsible for injury incurred in a slip and fall accident.

HEALTH PRECAUTIONS

Use of gloves and eye protection are recommended during handling and application of material. Exercise caution to avoid getting on skin, clothes, or eyes. Epoxy can cause skin irritation or allergic reactions. Refer to Safety Data Sheet prior to coating application.

WARRANTY

USST, Inc. guarantees that this product is free of manufacturing defects. The retailer and manufacturer are not responsible for the end use of the product. It is up to the end user to determine the suitability of the concrete substrate prior to application. The liability of USST is limited to the purchase price of the material proven to be defective.



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CHEMICAL RESISTANCE

Xylene	No effect
Methyl Ethyl Ketone (MEK)	Swelling
Methanol	No effect
Acetone	No effect
Gasoline	No effect
Brake Fluid	No effect
Transmission Fluid	No effect
Sulfuric Acid 70%	Some discoloration
Acetic Acid 3%	No effect
Sodium Hydroxide 50%	No effect
Bleach	No effect
Mustard	Slight stain
Ketchup	No effect
Tea	No effect
Coffee	No effect
Cola	No effect
Red Wine	No effect
Iodine	No effect
Blood	No effect

* 24 hour, spot test

LIMITATIONS

- Interior use only.
- Adequate surface preparation is required for adhesion.
- Do not allow product to freeze.
- Must cure a minimum of 24 hours before contact with water.
- Dry times will vary depending on ambient and substrate temperatures. Humidity level will also affect dry time.
- Do not install when temperatures are below 50°F or above 90°F.
- Will not bridge cracks in concrete.
- Not designed for moisture mitigation.
- An onsite mockup must be performed to determine suitability of application.

PROPERTIES & TECHNICAL DATA

Volumetric mix ratio (A:B)	1:1
Solids by volume	31%
VOC g/l	7
Pot life	1.5-2 hrs
Recoat window	<24 hrs
Tack free @70°F	1 hr
Walk on time at 73° (ASTM D 1640)	2-3 hrs
Walk on time at 50° (ASTM D 1640)	2-3 hrs
Vehicle traffic	48 hours
Pencil hardness	3h
¼" Mandrel Bend	180°
Mixed Viscosity	180cP



Scan for digital TDS and SDS