

HYDRO-STOP 25

SINGLE-COMPONENT SOLUTION DESIGNED TO PROTECT FINISHED COATINGS AND ADHESIVES FROM CONCRETE MOISTURE RELATED ISSUES

HYDRO-STOP 25 is a permanent, penetrating, concrete sealer which solidifies to fill the pores and close the capillaries below the surface preventing moisture from reaching the surface. Hydro-Stop 25 can be applied over interior and exterior cement-based products including concrete slabs, garages, driveways, patios and porches and sidewalks.

ADVANTAGES

- Protects against concrete moisture vapor emissions
- Protects finished flooring, adhesives, coatings and cement overlays from concrete slabs containing up to 100% relative humidity (RH), calcium chloride readings reaching 25 pounds
- Seals and creates a barrier below the surface increasing the density of concrete slabs
- Permanent, one time use
- Neutralizes high PH in concrete
- Increases the density of concrete slabs
- Prevents penetration of salt and other contaminants
- Protects against damage from freeze-thaw cycles
- Prevents dusting
- Extends the life of the concrete slab
- Interior and exterior applications
- Increases the density of concrete slabs
- Water-based, VOC free

Hydro-Stop 25 is designed to be applied to untreated, unsealed and absorbent concrete surfaces.

SURFACE PREPARATION

Existing Concrete

Concrete surfaces must be sound, clean and dry. Remove all dirt, dust, spalling or loose concrete, oil, grease, wax, mildew, efflorescence, laitance, curing com-

pounds, form release agents, rust, paint or any other foreign material which might effect the bond. Existing concrete surfaces with prior surface coatings must be mechanically profiled to a concrete surface profile of a CSP-2. Umaco Ultra-Clean may be used to remove oil or grease stains from concrete surfaces and may also be used as an all purpose cleaner prior to application. A rough profile and porous surface are required for proper adhesion which may be obtained by lightly etching the concrete using Umaco Ultra-Etch or by using mechanical means. Ultimately, a porous surface is required.

- Concrete surfaces with known moisture issues and surfaces over 10 years of age must be mechanically profiled (CSP-2) then leveled or skim coated using Umaco Universal 1023
- Hydro-Stop 25 must first be applied before leveling or skim coating the surface with Umaco Universal 1023
- Minor patching and repairs can also be completed after Hydro-Stop 25 is applied
- Epoxy, urethane, polyaspartic and other resin systems require a CSP-3 profile and do not require a cement based top coating as part of surface preparation

Newly Cured Concrete Surfaces

Hydro-Stop 25 can be applied to newly cured concrete with no wait time. All construction material and debris (dust, paint, drywall mud, etc.) must first be scraped, buffed, or broom swept from the surface of the slab. If a slab has received a burnished finish, Umaco Ultra-Etch must be applied, or the surface must be mechanically profiled to open the pores of the slab. (Umaco Universal 1023) and be completed after Hydro-Stop 25 has been applied. If minor patching and skim

APPLICATION

Hydro-Stop 25 can be applied using a pump or battery powered sprayer with a wide fan tip spraying with a 50% overlap. Edges can be applied using a squeegee or heavy nap roller.

Existing and Cured Concrete

In 1,000 to 2,000 ft² sections, apply one coat of sealer so that the slab receives a wet to slightly cloudy appearance.

Once dry, the slab may have a cloudy appearance due to product solidifying on the surface. Contaminants from inside the slab may rise to the surface as well providing further discoloration. Remove any loose particles from the surface with a vacuum or hand scraper prior to applying any finished coatings.

New Pour: Burnished Finish

If the slab is receiving a burnished finish, Hydro-Stop 25 must be applied during the trowel process. Allow the concrete to harden until the slab can be walked on with only minor indentations in the surface. Spray one coat of the sealer, fully wetting the slab and with a 50% overlap, onto the concrete. The concrete can be troweled immediately after the sealer is applied. Once the sealer is applied continue to trowel as needed to achieve the desired finish.

New Pour: Trowel Finish

Do not burnish the concrete when troweling. If a curing compound is being applied it must be applied after Hydro-Stop 25 has been applied. After troweling is completed, the slab must be porous enough at the surface to absorb moisture. Once the concrete surface is hard enough to walk on without indentations, apply the sealer in 1,000-2,000 ft² sections fully wetting the slab and with a 50% overlap. Allow the sealer to absorb for 5-8 minutes then apply a second coat in the areas that absorb into the slab.



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SPREAD RATES

Broom Trowel & Mechanically Profiled

For broom trowel and mechanically profiled surfaces, the spread for Hydro-Stop 25 is 200-250 ft² per gallon.

Hard Trowel Surfaces

For hard trowel surfaces where the slab pores are opened with Umaco Ultra-Etch, the spread for Hydro-Stop 25 is 300-350 ft² per gallon.

LIMITATIONS

- Apply when ambient and surface temperatures are between 55°F-90°F and will remain so for 48 hours after application
- Do not apply over existing decorative exposed aggregate or stained concrete surfaces as discoloration may occur
- Allow the surface to cure a minimum of 14 days before installing finished flooring
- Do not apply Hydro-Stop 25 over Gyp-Crete

ADHESIVES

Remove any construction dust, particles pushed to the surface, and loose product dried on the surface. Low spots where product puddles and dries can be scraped off the surface if loose. Adhesives applied directly to the sealed concrete surface must be applied as per specifications for a non-porous substrate.

Exception: Adhesives are not required to be applied as per spec for a non-porous substrate if the Hydro-Stop 25 was applied during the concrete pour.

STORAGE

Product must be stored in conditions above freezing and below 90°F. Shelf life of product is 2 years.

WARNING

Eye and skin irritant. Avoid contact with eyes, skin and clothing. Avoid breathing vapors, mist and spray. Use with good ventilation. Dust masks, eye protection and gloves are recommended when using this product. Read and follow product Safety Data Sheet (SDS) before using this product.

24 Hour Emergency Medical/Spill Information (Chemtrec): 800-424-9300

KEEP OUT OF THE REACH OF CHILDREN!

WARNING! If you scrape, sand or remove old paint, you may release lead dust or fumes. **LEAD IS TOXIC.**

EXPOSURE TO LEAD DUST OR FUMES CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE.

Before you start, find out how to protect yourself and your family by contacting the USEPA National Lead Information Hotline at 1-800-424-LEAD or log onto www.epa.gov/lead. Wear a properly fitted respirator and prevent skin contact to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Follow these instructions to control exposure to other hazardous substances that may be released during surface preparation.

For technical assistance call 978-453-8881.

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LIMITED WARRANTY

The manufacturer guarantees its products to be free of defects and the extent of its liability is limited to the purchase price of the materials only, if proved to be defective. Improper mixing, incorrect application or other factors beyond the control of the manufacturer or its dealers may produce unsatisfactory results and cannot be held to be the manufacturers or its dealers responsibility. There are no other guarantees either expressed or implied. (2026)

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