

HYDRO-STOP 25

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

HYDRO-STOP 25 is a permanent, VOC Free, water-based, cost effective solution used to protect finished coatings from concrete moisture related issues and extends the integrity and service life of concrete. Hydro-Stop 25 can be applied at the time of the concrete pour, to new and existing concrete surfaces, and can be applied underneath or over the surface of any cement based concrete patch. Hydro-Stop 25 solidifies to fill the pores below the surface of the concrete slab preventing moisture from reaching the surface. Hydro-Stop 25 can be applied to interior and exterior concrete surfaces including slabs (below/on/above grade), garages, driveways, patios and porches, sidewalks and concrete pavers.

ADVANTAGES

- Hydro-Stop 25 solidifies to fill the pores below the surface of the concrete slab preventing moisture from reaching the surface
- Protects finished flooring, coatings, and adhesives from concrete slabs containing up to 100% relative humidity (RH), calcium chloride readings reaching 25 lbs.
- Neutralizes high PH in concrete
- Interior and exterior applications
- Extends the service life of exterior concrete surfaces
- Seals beneath the surface and increases the density of exterior concrete slabs such as concrete driveways, sidewalks, porches and decks, and garages
- Prevents outside elements, moisture, and salts from penetrating into the concrete causing deterioration
- Protects concrete slabs from becoming damaged due to freeze/thaw conditions in colder climates

PREPARATION

Remodeled Concrete Surfaces

Hydro-Stop 25 must be applied to a clean and porous concrete surface. Existing concrete surfaces with prior surface coatings must be mechanically profiled to a concrete surface profile of a CSP-2. Concrete surfaces with known moisture issues and surfaces over 10 years of age must receive a top coating of a cement-based product (Umaco Universal 1023) after being profiled to a CSP-2. Floor leveling and skim coating must be completed prior to applying the Hydro-Stop 25. If sanding the leveled or skim coated surface is needed, complete this prior to applying the Hydro-Stop 25. If needed, minor patching and skim coating can also be completed after the sealer 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

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. If major leveling and skim coating is taking place it must be completed using a cement based product (Umaco Universal 1023) and be completed prior to applying Hydro-Stop 25. If minor patching and skim coating is taking place it can be completed after the sealer is applied.

Cracks and Trenches

Any existing cracks (expansion joints not included) with visible gaps must be filled and floated over with cement. The saw cuts of trenches must be covered with a cement based coating prior to applying the sealer.

Protecting Finished Surfaces

Any finished surfaces such as cabinetry, glass, finished metal surfaces, and finished painted areas must be masked off with plastic up to 2 feet from the concrete to prevent over spray from causing discoloration. Painted areas affected by over spray can be repainted to address any discoloration.

PATCHING & SKIM COAT PRODUCTS

Floor leveling and skim coat products must be cement-based (Umaco Universal 1023). Floor leveling products must have a minimum compressive strength of 4,000 psi at 28 days. Skim coat products must have a minimum compressive strength of 3,000 psi at 28 days. Gyp-Crete is prohibited from being used with this product.

APPLICATION

Equipment for 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. After completing a section, let the area sit for no more than 10 minutes before applying a second coat. When applying a second coat, only apply to the areas where the sealer has penetrated and the texture of the concrete has become visible. 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.



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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. If installing finished flooring less than 14 days after the concrete pour contact Umaco for approval.

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. After 5-8 minutes apply a second coat in the areas that absorb into the slab. If installing finished flooring less than 14 days after the pour contact Umaco for approval.

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.

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. (2024)

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