

# HYDRO-GARD 33

A READY-TO-USE, SOLVENT-FREE, FLEXIBLE, MULTI-PURPOSE, WATERPROOFING & CRACK-ISOLATION MEMBRANE

**HYDRO-GARD 33** is a ready-to-use, solvent-free, flexible, waterproofing and crack-isolation membrane that can be used for a wide variety of applications. Hydro-Gard 33 provides a continuous barrier to protect adjacent rooms and areas below from water damage.

## **FEATURES**

- Ready to use
- Quick drying
- Low odor
- Interior & exterior use
- Seamless & monolithic membrane
- Prevents in-plane floor cracks from transmitting through tile or stone
- In-plane isolation up to 1/8" over nonstructural cracks
- May be tiled over or painted

## **SUITABLE SUBSTRATES**

- Concrete & masonry
- Cement backerboard
- Plywood & OSB
- Lightweight concrete
- Gypsum surfaces
- Ceramic tile & resilient flooring
- Clean metal
- Stainless steel
- PVC

## **TYPICAL USES**

- Floors, walls & ceilings
- Membrane under tile
- Tub & shower surrounds
- Shower pan liner
- Bathrooms & kitchens
- Laundry rooms
- Balconies & plaza decks
- Mechanical rooms
- Foundations
- Pools, spas & water features
- Planters

## **PACKAGING**

2 Gallon Pail (7.57 liters)

## **SURFACE PREPARATION**

Surfaces must be structurally sound, clean and dry. Remove all dirt, dust, oil, grease, wax, mildew, efflorescence, laitance, curing compounds, form release agents, rust, paint or any other foreign material which might effect the bond. SEE PAINT REMOVAL WARNING ON BACK PAGE.

### **Concrete**

Newly applied concrete must be troweled smooth but not highly polished (burnished) so as not to absorb water and allowed to cure for a minimum of 28 days. All defects, spalling or loose concrete and dormant cracks (exceeding 1/8") need to be repaired prior to applying Hydro-Gard 33. 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 is recommended for proper adhesion which may be obtained by lightly etching the concrete using Umaco Ultra-Etch. Mechanical means such as dustless grinding may also be used. Ultimately, a porous surface is required for proper bonding.

### **Lightweight Cement & Gypsum**

Lightweight cement or gypsum-based must be structurally sound, clean, subject to deflection and obtain a minimum of 2000 psi compressive strength at cure time. The underlayment must be sufficiently dry and properly cured to the manufacturer's specifications for permanent, non-moisture permeable coverings.

### **Drains**

Exterior and wet areas must have proper sloping to drains without divots that would affect drainage. Drains should have a clamping ring with open weep holes for thin-set application. Apply the membrane to the bottom of

the flange. The drain should be fully supported without movement and should be even with the plane of the substrate. Apply Hydro-Gard 33 membrane around drain. Embed 12"x12" fiberglass mesh into the membrane making sure it does not obstruct the drainage weep holes. Then apply an additional coat of the membrane and smooth. After curing, clamp the upper flange where the membrane and the upper flange make contact. A toilet flange can be handled in much the same manner.

### **Crack Prevention Membrane**

Force Hydro-Gard 33 into cracks with the flat side of the trowel, roller or brush. Using a 3/16" - 1/4" V-notch trowel or 3/8" rough textured roller. Use the flat side of the trowel and flatten the ridges to form a continuous even coat of material. The membrane should extend a minimum of the diagonal measurement of the tile beyond both sides of the cracks. Gaps between plywood sheets and where floors meet walls must also be prefilled. For continuous crack isolation, cover the entire substrate with two coats of Hydro-Gard 33 at a rate of 50 ft<sup>2</sup> per gallon for each coat.

### **Movement Joint Placement**

Do not bridge joints designed to experience movement. Carry these types of joints through the tile work. Clean joint and install an open or closed cell-backer rod to the proper depth. Then compress sealant into the joint, coating the sides and leaving sealant flush with the surface. When the sealant is dry, place bond-breaker tape over the joint. Apply a minimum 3/64" of Hydro-Gard 33 over the joint. After the tile work is properly set, follow the architects and manufacturers instructions to fill the joint with a specified sealant.



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### **APPLICATION**

Stir well before using. Apply Hydro-Gard 33 to the entire area to be waterproofed (including previously coated areas such as cracks, drains and penetrations) using a 3/8" nap roller. Let product dry to a light-gray color. Apply a second coat to the entire installation. Let dry 30 to 50 minutes before installing tile or stone. Final dry thickness of first and second coats combined in the main area should be about 20 mils at a minimum. Inspect and as needed recoat pinholes or areas not completely covered. Let dry. Apply a bead of silicone or urethane sealant around drain flange at drain throat to join Hydro-Gard 33 to the drain assembly. Leave no voids. Bolt down collar to drain flange. Where Hydro-Gard 33 coating ends on any penetration, apply a bead of silicone or urethane sealant.

### **COVERAGE 2G PAIL**

Approximate coverage per 2 coats (20 mils) is 120 ft<sup>2</sup>

### **CURING**

Drying time between first and second coats is when product turns light gray and is dry to the touch. At 70°F and 50% relative humidity, drying time after second coat is approximately 30 to 50 minutes.

### **EQUIPMENT CLEANUP**

Clean tools and hands with water before material dries.

### **STORAGE**

Hydro-Gard 33 has a shelf life of one (1) year from date of manufacture in original factory sealed containers when stored indoors at a temperature between 60-95°F (15-35°C).

### **LIMITATIONS**

- Ambient and surface temperatures must be 40°F (4°C) or higher during application and drying time within 72 hours of application
- Use only on surfaces that are sound, clean and free from any residue
- Do not apply on existing concrete slabs on-ground with relative humidity levels over 85%
- Do not apply over wet surfaces of surfaces subject to hydrostatic pressure
- Do not use as an adhesive
- Do not use membrane as a wearing surface
- Membrane must be covered with tile or other permanent flooring
- Membrane may also be painted over (contact Umaco representative for more details)
- Do not use solvents in conjunction with the membrane
- **PROTECT FROM FREEZING**

### **WARNING**

Eye and skin irritant. May cause dermatitis and sensitization. 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 on to [www.epa.gov/lead](http://www.epa.gov/lead). Wear a properly fitted NIOSH-approved 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. (2022)*

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