PRODUCT DATA SHEET

Hydrotech® HydroSeal Deck Membrane

formerly known as HydroSeal Deck Membrane

GENERAL DESCRIPTION

HydroSeal Deck Membrane is a high performance two-component, fast-curing, poly methyl-methacrylate (PMMA) resin.

BASIC USE

HydroSeal Deck Membrane is combined with HydroSeal Catalyst and HydroSeal Fleece reinforcement to form a monolithic, reinforced waterproofing membrane for balconies or terraces, either exposed with appropriate HydroSeal Finish or concealed with hard set tiles or pavers. Flashing of all terminations and penetrations is accomplished with HydroSeal Flashing Membrane.

APPLICATION

- The product can be applied at substrate and ambient temperatures between 37°F (3°C) and 95°F (35°C). The temperature of the substrate must also be at least 5 degrees above the dew point temperature.
- All substrates must be clean, dry, and free of oil, grease, curing compounds, release agents, laitance, gross irregularities, loose, unsound or foreign material such as moss, algae growth, dirt, ice, snow, water or any other condition that would be detrimental to adhesion of resin to the substrate. All substrates must be primed with the appropriate HydroSeal Primer prior to the application of HydroSeal Deck Membrane.
- All termination and penetration flashing details should be completed with HydroSeal Flashing membrane prior to the application of the HydroSeal Deck Membrane over the field of the deck.
- Thoroughly mix the entire drum of resin for 2-3 minutes before each use, before adding catalyst, and prior to pouring off resin into a second container (i.e., plastic paint bucket/pail) for batch mixing.
- Catalyze only the amount of material that can be used within 15-20 minutes.
- Add pre-measured catalyst to the resin component (see table 1) and stir for 2-minutes using a slow-speed mechanical agitator or stirring stick.
- The amount of catalyst added is based on the weight of the resin used and the anticipated ambient conditions.

catalyst required per 1-kg of resin used					
4% Catalyst 37°F to 50°F		3% Catalyst 50°F to 68°F		2% Catalyst 68°F to 95°F	
(3°C to 10°C)		(10°C to 20°C)		(20°C to 35°C)	
g	kg	g	kg	g	kg
40	.04	30	.03	20	.02

Tip: Each scoop provided with the HydroSeal Catalyst is equal to roughly 0.01 kg. i.e., 2% catalyst for each 1 kg of resin = 2 scoops of catalyst powder; 4% catalyst for each 1 kg resin = 4 scoops of catalyst powder, etc.

- Pot life and working times noted below are approximate, provided as a guideline, and may vary. Actual set and cure times should be established in the field based on actual field conditions.
    - Pot Life: approx. 20 – 30 minutes
    - Rainproof: approx. 30 minutes
    - Next Coat: approx. 1 hour
    - Fully Cured: approx. 3 hours
- After mixing, apply resin to the properly primed substrate at a rate of 0.21 - 0.31 kg/sqft (2.3 to 3.3 kg/sqm) using approved rollers or brushes. The resin should be spread evenly onto the surface.
- Roll HydroSeal Fleece reinforcement directly into the resin, avoiding any folds and wrinkles. Use a roller to lightly work the resin into the fleece, saturating from the bottom up. Note the fleece should darken in appearance, with no white spots show. White spots are indications of unsaturated fleece or lack of adhesion. It is important to correct these faults before the resin cures.
- Apply an even coat of resin over top of the in-place fleece at a rate of 0.09 kg/sqft (1.0 kg/sqm) using approved rollers. Use caution not to spread resin too thin.

- Maintain a minimum 2 inch (5 cm) overlap at all side laps of adjacent Fleece and 4 inch (10 cm) overlaps at all butt laps, tie-ins, and flashings.
- A completed and cured HydroSeal Deck Membrane should be covered with the appropriate surfacing within 12 – 24 hours of completion. If HydroSeal Deck Membrane is left exposed for more than 24 hours, HydroSeal Activator must be used to clean and reactivate the membrane surface. HydroSeal Activator should be allowed a minimum of 20-minutes evaporation time after application, and over-coated within 60-minutes of application. Re-apply HydroSeal Activator as required to assure proper reactivation of the application areas.

PACKAGING/SIZES/COVERAGE

HydroSeal Deck Membrane resin is supplied in 25 kg re-sealable drums. Always store in a cool and dry location. Do not store in direct sunlight or in temperatures below 32°F(0°C) or above 77°F(25°C). Approximate shelf life is 12-months when left sealed, unmixed and with proper storage.

Yields will vary depending upon system selected and the smoothness and absorbency of substrate.

Approximate coverage rates:

- Smooth substrates: 0.23 kg/sqft (2.5 kg/sqm)
- Normal substrates: 0.31 kg/sqft (3.3 kg/sqm)
- Fine grained substrates: 0.36 kg/sqft (3.8 kg/sqm)
- Rough substrates: 0.40 kg/sqft (4.3 kg/sqm)

Tip: While coverage rates will vary depending on the substrate as noted above, on average:

- 0.31 kg of either HydroSeal resin will cover 1 sqft of normal substrate
- 1 kg of either HydroSeal resin will cover 3.2 sqft of normal substrate

PRECAUTIONS

Keep away from open fire, flame or any ignition source. Vapors may form explosive mixture with air. Avoid skin and eye contact with this material. Avoid breathing fumes. Do not eat, drink or smoke in area of application. Refer to product Material Safety Data Sheet (MSDS) for additional information pertaining to this product and prior to use or handling.

Workers should wear appropriate clothing to protect from accidental skin contact. When mixing or applying this product workers must use butyl rubber or nitrile gloves. Safety glasses with side shields are required for eye protection. In enclosed spaces, use local exhaust ventilation to maintain worker exposure below TLV. If the airborne concentration poses a health hazard, become irritating or exceeds recommended limits, use a NIOSH approved respirator in accordance with OSHA Respirator Protection requirements under 29 CFR 1910.134. The specific type of respirator will depend on the airborne concentrations. A filtering face piece or dusk mask is not acceptable for use with this product if TLV filtering levels have been exceeded.

Catalyzed and cured resin may be disposed of in standard landfills. Uncured resin is considered a hazardous material and must be handled as such, in accordance with local, state and federal regulations.