

HydroSeal Matrix



BUILDING TRUST



GENERAL DESCRIPTION

HydroSeal Matrix is a high performance two-component, fast-curing, poly methyl-methacrylate (PMMA) resin with integral chopped polymer fiber reinforcement.

BASIC USE

HydroSeal Matrix is used to form a monolithic, self-adhering and self-terminating reinforced membrane for flashing and repairs where HydroSeal Resin reinforced with HydroSeal Fleece would be difficult or impossible to install. HydroSeal Matrix is primarily used in conjunction with Hydrotech’s MM6125® membrane and flashing accessories for a variety of conditions that do not allow for typical membrane flashing termination requirements. It comes standard in a light grey color.

APPLICATION

- The product can be applied at substrate and ambient temperatures between 37°F (3°C) and 95°F (35°C).
- All substrates must be clean, dry, 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 Matrix.
- 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 if batch mixing.
- Catalyze only the amount of material that can be used within 20 minutes.
- Add pre-measured catalyst to the resin component, 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					
6% Catalyst 37°F to 50°F (3°C to 10°C)		4% Catalyst 50°F to 68°F (10°C to 20°C)		2% Catalyst 68°F to 95°F (20°C to 35°C)	
g	kg	g	kg	g	kg
60	.06	40	.04	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 minutes
- Rainproof: approx. 30 minutes
- Next Coat: approx. 45 minutes
- Fully Cured: approx. 3 hours
- After mixing, apply resin to clean and primed substrate and lap over previously installed MM6125 membrane and/or flashing application at the required consumption using a trowel, or brush. The resin should be spread evenly onto the surface at a minimum consumption between 0.23 kg/sqft (2.5 kg/sqm) to 0.36 kg/sqft (3.9 kg/sqm) achieving an approximate 80 to 125 mils depth respectively. After troweling the resin in place finish the surface by smoothing out with an approved roller or brush.

PACKAGING/SIZES/COVERAGE

HydroSeal Matrix is supplied in 5 kg or 10 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.

On normal surfaces, each 5 kg unit will cover approximately 21 sqft (2.0 sqm) and each 10 kg unit will cover approximately 43 sqft (4.0 sqm). Yields will vary depending upon system selected and the smoothness and absorbency of substrate.

Approximate coverage rates:

- 80 mils: 0.23 kg/sqft (2.5 kg/sqm)
- 125 mils: 0.36 kg/sqft (3.8 kg/sqm)

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.

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