

Hydrotech® HydroSeal 1K PU Membrane

formerly known as HydroSeal 1K PU Membrane



BUILDING TRUST



GENERAL DESCRIPTION

HydroSeal 1K PU Membrane is a single component, low VOC, moisture-triggered, aliphatic polyurethane resin. It is a fully adhered, cold applied, highly elastic, and alkali resistant membrane designed for easy application in combination with HydroSeal 1K Epoxy Primer and a reinforcing layer of either HydroSeal 1K Fleece or HydroSeal 1K Fiber Reinforcement.

BASIC USE

The HydroSeal 1K PU Membrane assembly is intended for exposed flashing details with Hydrotech's Monolithic Membrane 6125 applications. It is particularly suitable for projects where the aesthetics of exposed base flashings might be a concern and/or where there are flashing conditions with tight clearances or irregular surfaces. HydroSeal 1K PU Membrane is available in standard grey and white colors. Custom colors are available with a minimum order quantity.



APPLICATION

- The product can be applied at ambient temperatures between 41°F (5°C) and 95°F (35°C), with relative air humidity of 80% max. The temperature of the substrate must be between 41°F (5°C) min. and 140°F (60°C) max, and at least 5°F 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 materials, and/or any other condition that would be detrimental to adhesion of resin to the substrate. All substrates must be primed with the HydroSeal 1K Epoxy Primer. Allow primer to cure completely before applying HydroSeal 1K PU Membrane. Refer to HydroSeal 1K Epoxy Primer Product Data Sheet for specific primer recommendations.
- DO NOT mix HydroSeal 1K PU Membrane.

Application with HydroSeal 1K Fiber Reinforcement:

Apply the HydroSeal 1K PU Membrane basecoat at a rate of 35 sf/gallon for a wet thickness of 45 mils using a 1/2" nap phenolic resin core roller. Immediately place HydroSeal 1K Fiber Reinforcement into the wet membrane basecoat, overlapping seams a minimum of 2" (place frayed edge over cut edge of roll), and use the wet roller to saturate completely. If the Fiber Reinforcement does not initially set flat/evenly into the basecoat, the binder will begin to dissolve in the wet membrane after about 5 minutes, at which time it can be gently re-worked with the wet roller to further embed the strands and flatten the surface until it conforms evenly to the substrate. Be careful not to overwork the fibers at this point. Allow this reinforced basecoat to cure for 12 hours at typical conditions (70°F and relative humidity of 50%) or until tack free. Once the basecoat is fully cured, apply the membrane topcoat at a rate of 53 sf/gallon for a wet film thickness of 30 mils. Membrane topcoat should be applied within 7 days of the basecoat. If 7 days are exceeded or the membrane becomes dusty, contact Hydrotech's Technical Department for guidance.

Note: When HydroSeal 1K Fiber Reinforcement is used, HydroSeal 1K PU Membrane Standard Gray can be used as the base coat and HydroSeal 1K PU Membrane White for the topcoat.

Application with HydroSeal 1K Fleece (wet on wet application):

Apply the HydroSeal 1K PU Membrane basecoat at a rate of 32 sf/gallon for a wet thickness of 50 mils using a 1/2" nap phenolic resin core roller. Immediately place HydroSeal 1K Fleece into the wet membrane basecoat, overlapping side seams a minimum of 3" and any necessary end seams a minimum of 6". Use wet roller with light pressure to saturate fleece from the bottom and to ensure that any air pockets are completely removed. Immediately apply the membrane topcoat at a rate of 64 sf/gallon for a wet film thickness of 25 mils to ensure even, complete fleece saturation from topside and uniform texture.

- HydroSeal 1K PU Membrane is designed for fast curing. High temperatures combined with air humidity will increase the curing process. Material in opened containers should be applied immediately. In opened containers, the material forms a film after approximately 1–2 hours. (at 75°F (24°C) and relative humidity of 50%)

- Applied product is rain resistant within 1 hour of application and dry to the touch within 4 hours at 70°F and 50% RH (6 hours at 50°F and 50% RH). Full cure is after 12-18 hours at 70°F and 50% RH (18-24 hours at 50°F and 50% RH).

PACKAGING/SIZES/COVERAGE

HydroSeal 1K PU Membrane is supplied in 4 gal. (15.14 L) pails. On normal surface each 4 gal. pail will cover approximately 85 - 95 square feet per gallon, therefore approximately 340 - 392 square feet per 4gal pail. Yield will vary depending on the smoothness and absorbency of the substrate. Always store in a cool and dry location. Do not store in direct sunlight or in temperatures below 35°F (2°C) or above 77°F (25°C). Condition material to 50 - 77°F (10- 25°C) before using for ease of application. Approximate shelf life is 15 months when left sealed in original and undamaged packaging.

PRECAUTIONS

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the current Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current Safety Data Sheets before using any products.

LEED INFORMATION

	Credit 4	Credit 5
Recycled Content (% by weight)		
Manufacture Location		
Extraction/Harvesting Location		

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