

PRO 3101

Fluid-Applied Membrane Waterproofing

Product Data Sheet

PRODUCT NAME

PRO 3101

MANUFACTURER

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PRODUCT DESCRIPTION

BASIC USES

PRO 3101 is white in color and is a single component, cold-applied, non-elastomeric, non-breathable, thermoplastic. It dries to a UV resistant finish that stops water and other chemical passage from moving through a substrate. Typical applications include car wash enclosures, swimming pool enclosures, and concrete tanks for the storage and/or treatment of wastewater.

PRO 3101 has demonstrated resistance to a Ph from 1.5 to 14.0

COMPOSITION & MATERIALS

PRO 3101 is solvent based with a VOC content of <600g/l. It has a hard glossy finish that can be recoated.

For designers wanting maximum protection, Proban® added at the factory delivers additional contact mold-inhibiting properties to the air barrier system. These properties may suggest other uses of PRO 3101.

TECHNICAL DATA

See physical properties table

INSTALLATION

SURFACE PREPARATION

Poured concrete Walls:

Fill honeycombs with non-shrinking Portland cement grout. Remove form ties from both sides of the wall. On the side of the wall that will be coated, fill tie depression irregularities flush using Detail Sealant PW™ or non-shrinking Portland cement grout.

Concrete Masonry Units (CMU):

Do not use PRO 3101 over CMU units containing integral moisture repellants without prior compatibility testing. Tool and brush mortar joints. Fill surface voids in CMU's with non-shrinking Portland cement grout. Submit control joint waterproofing design to Polyguard Products, Inc. for approval prior to commencing work.

Prior to the application, surfaces must be clean and dry; free of mortar smears and form release; and free of frost, ice or excess moisture.

PRIMING

No primer is recommended. For best results, PRO 3101 should be applied directly to sound concrete surfaces.

MEMBRANE APPLICATION

Apply PRO 3101 in ambient temperatures between -20°F and 120°F. For optimum results the material temperature should be at a minimum 50°F prior to application. Lower temperatures decrease material flow properties.

Apply PRO 3101 over poured concrete and CMU walls that have cured a minimum of 3 days, have a minimum 175 PSI pull-off strength per ASTM D4541, are dry to touch, are clean and frost free. In conditions where a wall has been under water or water soaked, do not proceed until the area has been drained and the substrate has dried to the touch.

Brush, spray, or roller apply PRO 3101 in three coats, each at a rate of 65 ft² (25 wet mils) per gallon. Back roll each brush or spray application for uniform appearance. Allow 8-24 hours drying time between coats. Total dry mil thickness of three coats should be 27 mils. Re-apply to meet 27 dry mils. Coverage rates over CMU's are dependent on the tightness of the surface profile. Spray using an airless sprayer having a 4000 PSI stall pressure and a 0.036-inch to 0.039-inch reversible tip is recommended. Rolling should be accomplished with a new 0.5-inch to 0.625-inch inch nap roller.

Membrane blistering can be avoided by applying PRO 3101 during a wall exposure in its daily cooling cycle.

Allow PRO 3101 to dry 24-48 hours before putting into service.

PROTECTION AND REPAIR

Protect above grade areas of PRO 3101 from UV exposure by recoating every 3-5 years. Apply coating to damaged area as taught in APPLICATION.

Protect below grade areas from the footing to 6 inches below the top of grade with: Lowflow™ Protection and Drainage Mat; Polyflow® 10 sheet molded drain or; Polyflow® 15 sheet molded drain. Drain these products to daylight or operational sump. Securely adhere one of the listed products to PRO 3101 that has dried a minimum of 3 days using Quick Grip Adhesive.

INSULATION

Adhere rigid insulation using Quick Grip Building Envelope Adhesive.

BACKFILL

After passing inspection of the completed drainage/protection system, backfill using clean fill material. Place backfill materials to within 2 feet of finish grade. Fill the remaining area with native soils. Shape the grade to drain away from the structure.

STORAGE

Drums and pails should be stored outside, out of direct sunlight, in temperatures between -20°F and 110°F and on a stable surface. Indoor storage requires a fire sprinkler system. Follow local governing requirements.

SAFETY

MSDS sheets for all Polyguard products can be obtained at our website www.polyguardproducts.com. Call Polyguard Products, Inc. at 214.515.5000 with questions.

WARRANTY

We, the manufacturer, warrant only that this product is free of defects, since many factors which affect the results obtained from this product are beyond our control; such as weather, workmanship, equipment utilized and prior condition of the substrate. We will replace at no charge product proved to be defective within twelve (12) months of purchase, provided it has been applied in accordance with our written directions for uses we recommended as suitable for this product. Proof of purchase must be provided. A five (5) year material or system warranty may be available upon request. Contact Polyguard Products, Inc. for further details.

TECHNICAL SERVICES

Technical assistance, information and Polyguard's products are available through a nationwide network of distributors and architectural representatives, or contact Polyguard Products, Inc.

PHYSICAL PROPERTIES TABLE		
PROPERTY	TEST METHOD	TYPICAL VALUE
ADHESION	ASTM C 836-89a	Exceeds
PERMEANCE	ASTM E 96 Method B	0.010 perm*inch dry mils
PERMEABILITY	ASTM E 96 Method B	0.000 grains/sq.ft./hr./in. Hg. at 80°F
RESISTANCE TO HYDROSTATIC HEAD	Water Column	231 ft.
WATER ABSORPTION	ASTM D 95	< 1% weight
METABOLITES	GSA-PBS 07115	Unaffected
RESISTANCE TO DEGRADATION	ASTM E 154	Excellent
CATEGORY 1 40 C.F.R. §59.401 "WATERPROOFING SEALERS AND TREATMENTS"		<600 g/l

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