



ELASTO-DECK 5001NG

A NON-GASSING POLYURETHANE ELASTOMERIC COATING

A BREAKTHRU IN URETHANE CHEMISTRY

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION:

Pacific Polymers® ELASTO-DECK 5001NG is a Liquid-applied, non-gassing, single-component, aromatic, moisture-cured, polyurethane waterproofing membrane.

COMPOSITION:

Liquid-applied, non-gassing, single-component, moisture-cured, polyurethane membrane

BASIC USES:

The ELASTO-DECK 5001 NON-GASSING is a waterproofing membrane used with the ELASTO-DECK 5000 W.D.A., ELASTO-DECK 5000 X2 and ELASTO-DECK 5000 M.R. systems.

ELASTO-DECK 5001 NON-GASSING may be used to fill minor cracks in concrete, except for expansion joints where the ELASTO-THANE 227/227R or PERMATHANE®SM7120 PU, a single component polyurethane sealant manufactured by HOLCIM SOLUTIONS AND PRODUCTS US, LLC is recommended.

This product is recommended for applications which require surface waterproofing, where bitumen extended polyurethane would not be suitable. It must be coated with ELASTO-GLAZE 6001AL-HT to achieve UV stability.

LIMITATIONS:

All materials shall be delivered to the jobsite in unopened containers clearly marked and labeled. Containers that have been opened must be used up within one or two days since it is a moisture-reactive material. It will start to set up when exposed to air. Since the product is moisture sensitive, it is possible a soft skin may develop in the container.

All surfaces must be completely free of foreign matter and primed with ELASTO-POXY PRIMER (VOC or W.B.), where necessary.

COLORS: Concrete Grey and Tan.

PACKAGING: 5-gallon pails (Concrete Grey and Tan) and 1-gallon pails (Concrete Grey only).

WARNING AND HAZARDS:

Before using the products, always refer to SDS for important warnings and safety information. Use only in areas with adequate ventilation. Avoid breathing vapors. Keep away from heat and flame. Avoid contact with eyes and skin. In the event of skin contact, remove immediately and wash with warm, soapy water. Wear suitable eye protection. Always wash hands before eating.

TYPICAL PROPERTIES (See Chart on Page 3)

INSTALLATION:

- **Surface Preparation:** All surfaces which are to be coated with ELASTO-DECK 5001 NON-GASSING must be free of contamination such as curing compounds, concrete hardeners, bond breakers, paint, etc.
- All surfaces must be dry, having a maximum water content of 15%. Water-curing concrete is recommended instead of using concrete curing compounds. An adhesion test must be performed if the concrete is cured with a curing agent. Membrane type curing compounds must be removed prior to application of Elasto-Deck systems. Concrete surfaces should be cleaned by grinding or shot blasting. Allow a minimum drying time of 72 hours. Except for non-moving shrinkage cracks and joints must be sealed with PERMATHANE®SM7120 PU, a -single component, moisture-cured sealant \manufactured by HOLCIM SOLUTIONS AND PRODUCTS US, LLC.
- All surfaces, except for plywood in good condition, must be primed.
- For concrete substrates use ELASTO-POXY PRIMER (VOC or W.B.)
- **Metal/Metal Flashing:** Prime with ELASTO-POXY PRIMER VOC prior to application.
- All seams between plywood sheets and the transition from the metal flashing and the plywood deck must be reinforced by imbedding a strip of glass cloth tape in wet ELASTO-DECK 5001 NON-GASSING, which is brushed evenly over the seam to a width of the tape plus additional inch overlapping the tape and a thickness of about 20 mils (0.5 mm) wet. Minimum 4-inch tape must be used (Perma-Glas Mesh). The application of ELASTO-DECK 5001 NON-GASSING can subsequently be made immediately over the entire area, including the taped areas.
- At projections through deck coatings such as posts, vents, pipes, stanchions, railings and similar locations of potential slight movement, provide a 1/4" (0.64 cm) bead of PERMATHANE®SM7120 PU. Tool sealant to form a cove and allow to cure before over-coating)

APPLICATION:

ELASTO-DECK 5001 NON-GASSING is applied by notched squeegee followed by back-roll (3/4"-1" nap roller). ELASTO-DECK 5001 NON-GASSING can be sprayed. Airless spray equipment must have a minimum of 30 to 1 ratio.

Coverage Rate:

56 sq. ft. per gallon yields → 25 mil DFT

45 sq. ft. per gallon yields → 30 mil DFT.

- ELASTO-DECK 5001 NON-GASSING has a unique chemistry in that the cure time can be accelerated by adding water. Addition of ½-1 ounce per gallon (7.5 g/liter) will reduce the cure time between 3-4 hours at 77 °F (25 °C) and 50% R.H. Water must be thoroughly mixed in prior to application. Use jiffy style mixing paddle and slow speed drill to avoid aerating the pail. Over mixing can cause film defects.

TEMPERATURE CONSTRAINTS:

- Minimum application temperature is 40°F (4°C) and rising and more than 5°F above dew point.
- Contact Technical Service when substrates are over 90°F (32°C) or under 40°F (4°C).
- Avoid application when inclement weather is present or imminent.
- Do not apply to damp, wet, or contaminated surfaces.

SHELF LIFE:

** The shelf life for an unopened container stored at temperatures between 60°F (15.6°C) and 95°F (35°C) is 6 months from date of manufacture. Store out of direct sunlight in a cool, well-ventilated area. Avoid storing containers directly on the floor or against an outside wall.

AVAILABILITY AND COST:

ELASTO-DECK 5001NG is supplied through building material dealers. These products are designed and manufactured to be installed by professional installers familiar with surface preparation and application procedures. All others should consult a professional installer; those who choose to install these products without professional assistance do so at their own risk.

CLEAN UP:

Equipment and tools should be cleaned immediately after use with acetone or other exempt solvent.

MAINTENANCE:

If **ELASTO-DECK 5001NG** is damaged, it can be repaired by cleaning the surface, priming with **ELASTO-POXY PRIMER VOC** and recoating with **ELASTO-DECK 5001NG**.

(See Maintenance Manual)

TECHNICAL SERVICE

All of the latest updates to product data and specifications are available at holcimpacpoly.com. Since product data and specifications change, it is the user's responsibility to make certain the most current versions of product data and specifications are being used.

PRIOR TO USE OF THIS MATERIAL,
READ ALL APPROPRIATE SAFETY DATA SHEETS

PRODUCT WARRANTY:

INSTALL AS DIRECTED ON PACIFIC POLYMERS® PRODUCT DATA SHEET. USER DETERMINES SUITABILITY FOR INTENDED USE AND ASSUMES ALL RISK AND LIABILITY. THIS PRODUCT IS SOLD "AS IS." EXCEPT AS REQUIRED BY LAW, THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IF TERMS ARE NOT ACCEPTABLE, RETURN UNOPENED PRODUCT TO PLACE OF PURCHASE. DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THESE PRODUCTS.

Complete technical information is available from
Holcim Solutions and Products US, LLC

TYPICAL PROPERTIES: ELASTO-DECK 5001NG

PROPERTY	TEST METHOD	ELASTO-DECK 5001NG BASE COAT
Shore "A" Hardness:	ASTM D-2240	50A-55A
Ultimate Tensile Strength:	ASTM D-412	430 P.S.I. ± 10%
Ultimate Elongation:	ASTM D-412	700% ± 10%
Bond Strength on primed Concrete:	ASTM D-4541	300 psi
Bond Strength on plywood	ASTM D-4541	185 ps1
Peel Strength on Plywood:	ASTM D-903	14 P.L.I. ± 10% (5.25 n/mm)
Crack Bridging:	ASTM C-836	System Pass
Tabor Abrasion:	ASTM D4060 mil DFT on 4"x4" metal CS17 wheel, 1000 rev, 1000-gram weight	N/A
Tear Strength (lb./in)	ASTM D-624	58
Weatherometer:	ASTM D-1499	N/A
Water Absorption	ASTM D570	< 3.5%
Moisture Vapor Transmission	ASTM E-96	1.5 ± 0.4 perms
Weight per Gallon:		9.65 ± 0.10 lbs. (4.38 ± 0.13 kg)
Solid Content (%) Weight % Volume %	ASTM D 2369	91 ± 2 88 ± 2
Viscosity:	Brookfield Viscometer	60 ± 10 poises (Thixotropic)
Flash Point:		120°F (49°C)
V.O.C. (Minus exempt solvent) (Meets SCAQMD requirement)	Calculated	82g/L
Shelf Life (when stored indoors at 77°F (25°C) in unopened containers)		6 months
Chemical Resistance	ASTM D 2299	N/A
Temperature Service Range		-50° F to +180° F (-45°C to +82.2°C)