



TECHNICAL DATA

COATINGS SEALANTS MEMBRANES POLYUREAS EPOXIES PRIMERS

ELASTO-DECK 5001 NG

BREAKTHROUGH NON-GASSING ELASTOMERIC POLYURETHANE

PRODUCT DESCRIPTION:

ELASTO-DECK 5001 NG is a liquid-applied, single component, aromatic, moisture-cured polyurethane waterproofing membrane, which will not blister or gas. It may be substituted for our standard ELASTO-DECK 5001 in all ELASTO-DECK 5000 coating systems.

MANUFACTURER:

PACIFIC POLYMERS INTERNATIONAL, INC.
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Garden Grove, CA 92841 USA
714/898-0025 FAX (714) 898-5687
<http://www.pacpoly.com>

BASIC USES:

ELASTO-DECK 5001 NG is a waterproofing membrane used with the ELASTO-DECK 5000 WDA, ELASTO-DECK 5000 X2, ELASTO-DECK 5000 TC, ELASTO-DECK 5000 MR, ELASTO-DECK 5000 PDS, and ELASTO-DECK 5000 WS systems. ELASTO-DECK 5001 NG may be used to fill minor cracks in concrete, except for expansion joints where ELASTO-THANE 227 is recommended. ELASTO-DECK 5001 NG may be used to waterproof concrete and plywood decks which are subsequently covered with outdoor carpeting, mortar bed and tile, or wood decking. The product is recommended for all applications which require surface waterproofing, where a bitumen extended polyurethane would not be suitable. ELASTO-DECK 5001 NG is also designed as a high performance elastomeric covering over spray applied, polyurethane foam roofs. ELASTO-DECK 5001 NG is available in special thixotropic consistency for use over irregular surfaces such as foam roofs. ELASTO-DECK 5001 NG must be coated with ELASTO-GLAZE 6001 AL if it is used over foam insulated roofs.

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 sets up when exposed to air. All surfaces must be completely free of foreign matter and primed with DECK-THANE PRIMER, where necessary.

SIZES:

Available in 1 gallon cans, 5-gallon pails and 55-gallon drums. Weighs 10 ± 0.2 lbs. per gallon (4.5 ± 0.1 kg/gallon).

INSTALLATION:

SURFACE PREPARATION: All surfaces which are to be coated with ELASTO-DECK 5001 NG 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 20%. Water-curing concrete is recommended instead of using concrete curing compounds. Concrete surfaces should be cleaned by sandblasting, beadblasting or acid etching. Allow a minimum drying time of 72 hours. Except for non-moving shrinkage cracks, and joints must be sealed with ELASTO-THANE 230, a single component, moisture-cured sealant manufactured by PACIFIC POLYMERS INTERNATIONAL, INC. All surfaces, except for plywood in good condition, must be primed with DECK-THANE PRIMER prior to application of the coating system at a rate of 350 square feet per gallon (8.6 m²/liter).

All seams between plywood sheets and the transition from the metal flashing and the plywood deck must be reinforced by imbedding a 3 inch (7.6 cm) wide strip of glass cloth tape in wet ELASTO-DECK 5001 NG, which is brushed evenly over the seam to a width of 4 inches (10 cm) and a thickness of about 20 mils (0.5 mm) wet. The application of ELASTO-DECK 5001 NG can subsequently be made immediately over the entire area, including the taped areas. Where ELASTO-DECK 5001 NG is used as a protective coating on polyurethane foam roofs, it must be applied within 8 hours from the time the foam is installed.

COLORS:

Tan and Concrete Grey.

MAINTENANCE:

If ELASTO-DECK 5001 NG is damaged, it can be repaired by cleaning the surface with Acetone and recoating it with ELASTO-GLAZE 5001 NON-GASSING system.

TECHNICAL SERVICES:

All of the latest updates to product data and specifications are available at the company website. Since product data and specifications change, it is the users responsibility to make certain the most current versions of product data and specifications are being used.



APPLICATION:

ELASTO-DECK 5001 NG shall be applied at a rate of 25 square feet per gallon (0.61 m²/liter) per coat resulting in a 50 dry mil (1.2 mm) thickness. Greater thickness can be achieved if necessary without a problem of gassing or blistering. ELASTO-DECK 5001 NG can be applied by airless spray equipment, roller, or notched squeegee. Airless spray equipment must have a minimum of 30 to 1 ratio. Permit a 48 hour cure time after the final coat is applied before continuing with tile setting, carpet laying, or back filling. ELASTO-DECK 5001 NG has a unique chemistry in that you the cure time can be accelerated by merely adding water. Addition of 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.

AVAILABILITY AND COST:

ELASTO-DECK 5001 NG is supplied through building material dealers. Prices vary with quantity and packaging. Quotations are made upon request. 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.

PRODUCT WARRANTY:

Satisfactory results depend not only upon quality products but also upon factors beyond our control; methods of application and site conditions are examples of such factors and can affect product performance. This warranty consequently extends only to products installed in strict accordance with the manufacturer's specifications. It is the users responsibility to satisfy himself, by his own information and tests, of the suitability of the product for his own intended use; user assumes all risk and liability resulting from his use of the product. The substrate to which the product is applied must be sound structurally and otherwise. Structural or substrate failures or imperfections resulting in damage to or failure of the product are not covered by this warranty. Since the use of the product is beyond the control of the manufacturer, the manufacturer assumes no liability for misapplication and misuse of the product. This warranty does not cover consequential damages, nor does it cover the labor attendant to replacing product in the event of a product failure. The warranty only extends to replacement of the product itself. All products proven to be defective in manufacture will be replaced at no charge. Since the use of these products is beyond our control we cannot assume any risk or liability for results obtained, nor can we accept damage in excess of the purchase price of these products.

PROPERTY

TEST METHOD

RESULTS

Hardness Shore "A"	A.S.T.M. D-2240	55
Ultimate Tensile Strength	A.S.T.M. D-412	975 psi (6.7 N/mm ²)
Ultimate Elongation	A.S.T.M. D-412	825%
Adhesive Peel Strength on Primed Concrete	A.S.T.M. D-903	90 P.L.I.
Peel Strength on Plywood	A.S.T.M. D-903	95 P.L.I. cohesive failure
Solids Content	A.S.T.M. D-2369	87 ± 2% by weight 79 ± 2% by volume
Water Absorption	A.S.T.M. D-471	< 1% by weight
Temperature Service Range		-50°F to +200°F -45°C to +93.3°C
Viscosity at 77°F (25°C)	Brookfield Viscometer	60 ± 10 poises
Moisture Vapor Transmission	A.S.T.M. E96-66 - Procedure	
Cured 7 days at 77°F(25°C) 50% RH	(a) 15 mil (0.015") dry film (0.38 mm)	3.7 perms ± 0.6
Cured 7 days at 77°F(25°C) 50% RH	(b) 30 mil (0.30") dry film (0.76 mm)	2.4 perms ± 0.4
Abrasion Resistance (CS-17 wheel, 1000 rev. with 1000 grams weight)	A.S.T.M. C-501 30 mil dry film on 4" x 4" (10 cm x 10 cm) metal.	No change in weight
Tear Resistance	A.S.T.M. D-1004-66	220 pounds per linear inch
Perpendicular Bond-strength on Plywood		185 psi plywood failure
V.O.C. Content		160
Shelf Life		6 months

(when stored indoors in cool and dry location at 77°F (25°C) in unopened containers)