



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®SM7108, a single component polyurethane sealant manufactured by ITW POLYMERS SEALANTS NORTH AMERICA 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 20%. 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®SM7108, a -single component, moisture-cured sealant or ELASTO-THANE 227/227R Polyurethane sealant, manufactured by ITW POLYMER SEALANTS NORTH AMERICA.
- 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®SM7108. 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 mixing blade and slow speed drill to avoid aerating the pail. Over mixing can cause film defects.

ITW POLYMERS SEALANTS NORTH AMERICA, INC.

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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 container 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 www.pacpoly.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.

Technical assistance can be obtained by contacting:

ITW POLYMER SEALANTS NORTH AMERICA

12271 Monarch Street
Garden Grove, CA 92841
Tel: 1-800-888-8340
Fax: 714-898-5687

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 USER'S 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 DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THESE PRODUCTS.

Complete technical information is available from
ITW Polymers Sealants North America, Inc.

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) |