

## PUR-FLEXDECK

# TECHNICAL DATA SHEET

### DESCRIPTION

PUR-FLEXDECK is a single component, liquid applied, moisture cured, aromatic polyurethane elastomeric waterproofing base membrane. Make sure to use the correct grade of product which complies with VOC regulations/requirements applicable as per federal, state, statutory, counties, cities and local bodies at the place of installation.

### FEATURES

- Economical
- Moisture Cured
- Seamless Waterproofing Membrane

### TYPICAL USES

- Concrete
- Plywood
- Metal
- Wood

### PACKAGING

- **5-Gallons** One 5 gallons pail (18.9 liters)

### TECHNICAL DATA

(BASED ON DRAW DOWN FILM)

<b>COVERAGE RATE</b>	1 gal/100 sqft 0.41 l/sqm
<b>DRY FILM THICKNESS PER COAT</b>	11 ± 2 mils 279 ± 50 μ
<b>HARDNESS, ASTM D-2240</b>	55 ± 5 Shore A
<b>TEAR RESISTANCE, DIE C, ASTM D-624</b>	170 ± 25 pli 28.9 ± 4.4 kN/m
<b>TENSILE STRENGTH, ASTM D-412</b>	800 ± 100 psi 5.5 ± 0.7 MPa
<b>ULTIMATE ELONGATION, ASTM D-412</b>	500 ± 50%
<b>SPECIFIC GRAVITY</b>	1.26 ± 0.1 cps
<b>TOTAL SOLIDS BY WEIGHT, ASTM D-2369</b>	81 ± 2%
<b>TOTAL SOLIDS BY VOLUME, ASTM D-2697</b>	71 ± 2%
<b>VISCOSITY AT 75°F (24°C)</b>	6500 ± 2000 cps
<b>VOLATILE ORGANIC COMPOUNDS</b>	2.01 lb/gal 240 gm/liter

## COLOR

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Grey or Tan.

## SURFACE PREPARATION

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**Old concrete** Concrete surface must be cleaned. BLASTRAC, sand blasting, diamond grinder w/30 grit or coarse, or water blasting is highly recommended to remove surface contaminants. Any oils and fats must be removed prior to product application. Acid etching may be required (followed by a thorough rinsing) to open the pores of the concrete to accept a primer. Do not apply to wet substrates. Chloride, moisture, and pH levels should be checked prior to application. In almost every application a primer is recommended prior to use.

**New concrete** The concrete should be allowed to cure for a minimum of 30 days. Compression resistance of concrete must be at least 25 MPa (3625 lb/inch<sup>2</sup>) after 28 days and traction resistance must be at least 1,5 MPa (218 lb/in<sup>2</sup>). BLASTRAC, sand blasting, diamond grinder w/30 grit or coarser or acid etching (followed by a thorough rinsing) is required to remove the surface laitance that appeared during the curing process. A primer should be used to reduce out-gassing and promote adhesion.

## MIXING

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Before application, mix PUR-FLEXDECK using a mechanical mixer at slow speed. Mix PUR-FLEXDECK thoroughly until a homogeneous mixture and color is attained. Use care not to allow the entrapment of air into the mixture. Do not mix in an up and down motion.

## APPLICATION

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For best results, use a squeegee or notched trowel. A phenolic resin core roller may be used but extra care should be taken not to trap air which may result in bubbles. Requires a continuous coating application to minimize lines and/or streaking. It is recommended to apply an aggregate of washed, dry, rounded sand, approximately 16 or 20 mesh (0.84-1.19 mm), 6.5+ Mohs minimum hardness at a rate of 20 lbs/100 sqft (1kg/sqm) or as required to achieve a slip-resistant finish, into the wet second coat, covering it completely. Broadcast sand until refusal and when the coating is dry, remove extra loose sand, preferably by vacuum. Most applications require one or two coats. To obtain proper adhesion between coats, it is imperative that re-coating be done within 48 hours.

## CURING

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At 75°F (24°C) and 50% relative humidity, allow coating to cure 16 hours before proceeding to subsequent coats. Cure time will vary depending on temperature and humidity.

If accelerated curing is required, add one quart of FD-50 in a 5 gallon pail of PUR-FLEXDECK and mix thoroughly. This accelerated PUR-FLEXDECK will cure in 6-8 hours at 75°F (24°C) and 50% relative humidity. If FD accelerator is used, then re-coat should be done within 12 hours after cure. Higher temperatures and/or high humidity will accelerate the cure time. Use caution in batch sizes and thickness of application. Low temperature and/or low humidity extend the cure time.

## CLEANUP

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Equipment should be cleaned with an environmentally safe solvent, as permitted under local regulations, immediately after use.

## STORAGE

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PUR-FLEXDECK has a shelf life of 1 year from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°F (15-35°C).

## LIMITATIONS

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This product is not UV Stable. The following conditions must not be coated with PUR-FLEXDECK systems: split slabs, buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, magnesite, and non-structural lightweight concrete. On grade slabs may receive PUR-FLEXDECK system coatings provided a moisture-vapor transmission test is first performed. Please contact Purepoxy technical department with the results. With regard to coating asphalt surfaces, please contact Purepoxy technical department.

Surfaces must be dry, clean and free of foreign matter. Clear coating may turn opaque and cloudy due to moisture penetration, especially in exterior applications. Surface may be slippery when wet. Containers that have been opened must be used as soon as possible. Do not dilute under any circumstance.

**WARNING This product contains Isocyanates and Solvent.**