

# FLEXDECK MEMBRANE

Two-Component, Solvent Free Elastomeric Base Membrane



REVISION : 04/19/2022

## TECHNICAL DATA SHEET

### DESCRIPTION

FlexDeck Membrane is a two component, fast setting, fast curing, solvent free, flexible, high performance, and high solids polyurethane elastomeric coating that can be applied to suitably prepared interior or exterior concrete, plywood and metal surfaces. Due to its fast gel time, FlexDeck Membrane is suitable for applications in temperatures as low as 20°F (-6°C). It may be applied in a single or multiple applications. FlexDeck Membrane is also relatively insensitive to moisture and temperature allowing applications in varied temperatures and humidity.

### FEATURES

- » Non-Gassing
- » Recoatable
- » Can Be Applied At Any Thickness
- » Seamless
- » Good Thermal Stability
- » Good Chemical Resistance
- » Meets USDA Criteria
- » Excellent Low Temperature Flexibility

### TYPICAL USES

- » Vehicular Traffic Areas
- » Sundecks & Balconies
- » Crack Repairs
- » Expansion Joints
- » Stalls, Wash Racks
- » Kennel Runs
- » Exterior & Interior Pedestrian Traffic Surfaces such as Walkways, Patios and Stairways
- » Interior Surfaces such as Floors and Mechanical Rooms

### TECHNICAL DATA

<b>PACKAGING</b>	1-Gallon Kit : One 1 gallon can, net fill 0.8 gallons (3 liters) of Part-A + One quart can, net fill 0.2 gallons (0.78 liters) of Part-B  5-Gallon Kit: One 5 gallon pail, net fill 4 gallons (15.12 liters) of Part-A and One 1 gallon (3.78 liters) can of Part-B
<b>COLOR</b>	Grey. Tan color is available with minimum order of 250 gallons (945 liters).
<b>COVERAGE RATE</b>	1 gal/100 sqft    0.41 l/sqm
<b>DRY FILM THICKNESS PER COAT</b>	15 ± 1 mils    381 ± 25 microns
<b>MIXING RATIO</b>	4A : 1B
<b>HARDNESS, ASTM D-2240</b>	64 ± 2 Shore A
<b>TEAR RESISTANCE, DIE C, ASTM D-624</b>	230 ± 25 pli    40.3 ± 4.4 kN/m
<b>SPLIT TEAR, ASTM D-470</b>	60 ± 5 pli    10.5 ± 0.9kN/m
<b>TENSILE STRENGTH, ASTM D-412</b>	1500 ± 100 psi    10.3 ± 0.7 MPa
<b>ULTIMATE ELONGATION, ASTM D-412</b>	1000 ± 100%
<b>SPECIFIC GRAVITY</b>	Part-A: 1.03 ± 0.1    Part-B: 0.98 ± 0.1
<b>TOTAL SOLIDS BY WEIGHT, ASTM D-2369</b>	94 ± 2%
<b>TOTAL SOLIDS BY VOLUME, ASTM D-2697</b>	95 ± 2%
<b>VOC, ASTM D-2369-81</b>	Part-A: 2500-3000 ± 500 cps    Part-B: 100 ± 50 cps

## MIXING

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NOTE: FlexDeck Membrane may not be diluted under any circumstances. Proportions are pre-measured. Using a mechanical mixer, first pre-mix separately Part-A and Part-B base material thoroughly to attain a uniform color, making sure to scrape the solids from the bottom and sides of the pail. Pour Part-B into Part-A slowly and while mixing, scrape the sides of the container. Mix for 1-2 minutes. Box the materials. Mix the combined Part-A and Part-B mixture thoroughly until uniform color is attained. Do not mix in an up and down motion.

## APPLICATION

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FlexDeck Membrane should be applied at a temperature of 20°F (-6°C) and above. 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 (0.0331-0.0469 in.; 0.84-1.19 mm), 6.5+ Mohs minimum hardness at a rate of 20 lbs/100 sqft (1 kg/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. An aggregate of 14-30 rubber granules may be broadcast into the membrane at a rate of 10 lbs/100 sqft (0.5 kg/sqm) or to refusal. The amount of rubber used will vary. When coating starts to gel in approximately 20 to 30 minutes, broadcast 14-30 mesh (0.56-1.41 mm) rubber granules until refusal. The quantity amount of rubber granules will vary (normal usage is 20 lbs/100 sqft for 1 kg/sqm). When the coated surface is stiff enough to support the weight of installer without damaging the coating or when the coating is dry (approximately 4-6 hours), remove all loose aggregate, preferably by vacuum.

## CURING

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At 75°F (24°C) and 50% relative humidity, allow each coat to cure for 2-4 hours before proceeding subsequent coats. Cure time will vary depending on temperature and humidity. If more than 48 hours passes between coats, re-prime the surface before proceeding.

## CLEANING

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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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FlexDeck Primer 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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Not UV stable. The following conditions must not be coated with FlexDeck Coatings: split slabs, buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, magnesite, and non-structural lightweight concrete. On grade slabs may receive FlexDeck coatings provided a moisture-vapor transmission test is first performed. Please contact FlexDeck Coatings technical department with the results.

With regard to coating asphalt surfaces, please contact FlexDeck Coatings 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 Curative Material. \*

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