



**SUNDEK**<sup>®</sup>  
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# SunLastic WP50

**One Component Water-Proofing Membrane**

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## PRODUCT DESCRIPTION

SunLastic WP50 One Component Water-Proofing Membrane is an exceptional copolymer emulsion waterproofing designed for use beneath decorative concrete overlays, tile, marble, below grade and between slab. It is IAPMO certified and complies with ANSI 118.10 as a waterproof membrane. SunLastic WP50 One Component Water-Proofing Membrane offers protection against water and water borne salt intrusion, together with excellent adhesion. It is applied to horizontal and vertical concrete substrates, bricks, tile and metal. For wood surfaces consult SUNDEK Technical Services. SunLastic WP50 One Component Water-Proofing Membrane is water-based and totally free of volatile organic content. It has no toxic odor and can be applied with or without fabric reinforcement. The thickness of SunLastic WP50 One Component Water-Proofing Membrane is a minimum of 40 mils (1.02mm) for standard applications and 62 mils (1.59 mm) with polypropylene fabric reinforcement.

### Typical Uses

Use SunLastic WP50 as a waterproof membrane directly under decorative concrete overlays (SUNDEK or other), ceramic tile, quarry tile, marble, etc.

## TECHNICAL INFORMATION

<b>Waterproofness</b> .....No Passage of Water Resistance to passage when subject to 27.7" head of water (hydrostatic Pressure of 1 lb/ft.) for one month.	<b>Crack-Bridging</b> ASTM C836, 1/8" opening.....no rupture
<b>Elongation</b> ASTM D638.....580%	<b>Hydrostatic Resistance</b> ASTM D751.....Passes Procedure
<b>Tensile Strength</b> ASTM D638.....345 psi	<b>Permeability</b> ASTM E96.....0.013 perm/in.
<b>Adhesion in Peel to Concrete</b> ASTM C794.....8.3 lbs (Pounds per inch width)	<b>VOC</b> .....6 g/L
<b>Moisture Vapor Transmission</b> ASTM E96.....2.04 gr	<b>Antimicrobial Resistance</b> ASTM G21.....Passes Rating 2

## GENERAL INFORMATION

### Advantages

- 1) IAPMO certified to ANSI 118.10 Listed as a Shower Pan Liner.
- 2) Forms a monolithic, tightly adhering, molded waterproofing membrane across floors and up cover bases, curbs, etc.
- 3) Environmental, safe and VOC compliant.
- 4) Reduces reflective cracking caused by dynamic substrate movement.
- 5) Thin film cross section does not interfere with building elevations.
- 6) Unlike waterproofing sheet goods, fluid applied membranes can easily be applied over irregular shapes.
- 7) Installed only by Professional Factory Trained SUNDEK Contractors.

### Limitations

- 1) Minimum ambient and surface temperatures during installation and cure must be 450F (70C). Do not allow product to freeze prior to cure.



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### GENERAL INFORMATION CONTINUED

#### Limitations Continued

- 2) Not recommended for application over dynamic joints (expansion, isolation, etc.) or dynamic large cracks.
- 3) All loose or unsound concrete must be removed and repaired prior to placement.
- 4) Moisture vapor emission rates (MVER) in excess of 6.0lbs/1000sq/ft/per 24hr. period per ASTM F1869, or an RH in excess of 78% per ASTM F2170 may result in delamination, discoloration or improper curing without proper treatment prior to installation of the flooring system. Consult with SUNDEK Technical Services for specific recommendations.
- 5) SunVap Moisture Vapor Barrier, vapor control primers, sloping, smoothing or leveling compounds, crack repair or isolation, or other supplementary items may be required for proper installation at an additional cost. Consult with SUNDEK Technical Services for specific recommendations.

#### Overview of Installation Steps

- 1) Prepare surfaces by removal of laitance, grease, foreign matter, etc. Repair damaged concrete or provide sloping.
- 2) Apply a cementitious base coat of 112/113 Premix with diluted additive and allow to dry.
- 3) Apply SunLastic WP50 One Component Water-Proofing Membrane to thickness sufficient to produce 28 mils (0.71mm) DFT and for greater dimensional stability incorporate fabric reinforcement.
- 4) If optional reinforcement is used, install an additional coating of SunLastic WP50.
- 5) Apply cementitious coating protection.
- 6) Conduct water test of finished installation.

#### Skid Resistance and Cleanability

In general, the more aggressive the finished surface the greater the coefficient of friction and corresponding skid resistance, the more difficult to clean. The smoother the finished texture the easier the surface is to clean, but there is a loss of skid resistant properties.

#### Cleaning

Cleaning and disinfecting compounds and cleaning techniques can affect the color, gloss, texture and performance of the system. As a precautionary step, SUNDEK recommends that the end-user test their cleaning and disinfecting compounds on a sample or on a small, out of the way finished area, utilizing the intended cleaning technique prior to cleaning the entire surface area. If no deleterious effects are observed, the procedure can be continued. If the cleaning and disinfecting compounds or cleaning techniques damage the system, modification of the cleaning material or techniques will be required. Contact your Representative for additional information.

#### Specification Assistance

Consult Sundeck Products USA Inc. for specification assistance, detailing, etc. This consultation is highly recommended prior to specification.

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## GENERAL INFORMATION CONTINUED

### Chemical Resistance

See Sundeck Products Inc., Chemical Resistance Guidelines for chemical resistance of a product or system, as well as the types of test performed:

- ASTM C868 Standard Test Method for Chemical Resistance of Protective Lining.
- ASTM C267 Standard Test Method for Chemical Resistance of Mortars, Grouts, and Monolithic Surfacing's and Polymer Concretes.
- ASTM D1308 Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes
- Sundeck Products USA Inc. Proprietary Testing

Note: Chemical resistance is a functional test, usually limited to changes in weight or thickness measured in loss or gain and does not evaluate subject aesthetic issues. To determine aesthetic issues, SUNDEK recommends testing the products or system in accordance with intended end use.

### Testing

The technical data contained herein is the result of tests made in SUNDEK's laboratories or in independent laboratories using small scale equipment, following generally accepted trade practices. Although this information is believed to be true and accurate, the use of different equipment for testing under dissimilar conditions or the testing of samples produced under dissimilar conditions may develop substantially different results.

### WARRANTY INFORMATION

NO WARRANTY SHALL BE EFFECTIVE UNTIL THE TERMS AND CONDITIONS OF SALE SET FORTH IN SUNDECK PRODUCTS USA INC. INVOICE ARE MET.

SUNDECK PRODUCTS USA INC warrants to the purchaser of its products that such products are free from manufacturing defect. SUNDEK does not warrant or guarantee the workmanship performed by any person or firm installing its products. SUNDEK's obligation under this warranty is limited solely to the original purchaser and solely to the remedy of replacement in kind of any product which SUNDEK sold which may prove defective in manufacture within one year from date of installation, provided said product was stored correctly and installed within the product's shelf life, by the original purchaser and which SUNDEK examination shall disclose to SUNDEK's satisfaction to be thus defective.

IN NO EVENT SHALL SUNDECK PRODUCTS USA INC BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES. THIS WARRANTY IS EXPRESSLY GIVEN IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE AND ALL OTHER OBLIGATIONS OR LIABILITIES ON SUNDEK'S PART, AND WE NEITHER ASSUME NOR AUTHORIZE ANY PERSON OR PERSONS TO ASSUME FOR US ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF A SUNDEK PRODUCT. THIS WARRANTY SHALL NOT APPLY TO ANY OF SUNDEK'S PRODUCTS, WHICH HAVE BEEN SUBJECT TO ADULTERATION, ALTERATION, ABUSE OR MISUSE. SUNDEK PRODUCTS INC. MAKES NO WARRANTY WHATSOEVER IN RESPECT TO ACCESSORIES, PARTS OR MATERIALS NOT SUPPLIED BY SUNDECK PRODUCTS USA INC WHICH ARE USED IN CONNECTION WITH ITS PRODUCTS. THE TERM "ORIGINAL PURCHASER" IN THIS WARRANTY MEANS THAT PERSON, CORPORATION OR ENTITY TO WHOM SUNDEK PRODUCTS USA INC. SOLD ITS PRODUCT OR PRODUCTS. ANY ACTION TO ENFORCE ANY WARRANTY OR FOR BREACH OF CONTRACT OR ARISING OUT OF ANY CLAIM AGAINST SUNDEK PRODUCTS USA INC. SHALL BE COMMENCED AND MAINTAINED ONLY IN A COURT OF COMPETENT JURISDICTION IN THE CONTINENTAL UNITED STATES OF AMERICA. THE PURCHASER ACCEPTS THESE TERMS AND CONDITIONS, AND HEREBY EXPRESSLY WAIVES ANY CLAIM TO ADDITIONAL DAMAGES.

CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.

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