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TECHNICAL BULLETIN

SEALDEK®

(Patented Technology)
Water Curable Polyurethane (WCP)™
TDI Free Base Membrane

DESCRIPTION

Based on a patented technology, SEALDEK® is a solvent free, TDI free, single component, liquid applied, water catalyzed, polyurethane elastomeric waterproofing base membrane.

FEATURES

- ❖Solvent Free
- ❖TDI Free
- ❖High Tensile
- ❖Proven Protection
- ❖Seamless Waterproofing Membrane
- ❖Optional Fast Cure with Added Accelerator
- ❖Vertical Catalyst can be used as an additive for SEALDEK® base membrane for vertical applications

TYPICAL USES

- ❖Auto Traffic
- ❖Pedestrian Traffic
- ❖Ship Deck Overlays
- ❖Concrete Bridges
- ❖Concrete or Plywood Decks
- ❖Most Metal, Wood, or Masonry Surfaces

COLORS

White

PACKAGING

5 gallon (19 liter) pail with a full vial of catalyst

55 gallon drums, net fill 50 gallons (189 liters) with a 1/2 pint can of catalyst. Contact SEALDEK® for availability of 55 gallon drums

MIXING

Before application, pre-mix SEALDEK® using a mechanical mixer (Jiffy Mixer) at slow speeds or mix for at least 5 minutes, if mixed by hand. Mix SEALDEK® thoroughly until a homogeneous mixture and color is obtained. Use care not to allow the entrapment of air into the mixture.

Optional: Add SEALDEK® Catalyst (1 vial per 5 gallon pail) and mix until a homogeneous mixture and color is obtained. Allow mixture to stand for 5 minutes, then mix again before applying to the substrate. SEALDEK® Catalyst will reduce cure time for cold temperature applications. Up to 3 vials of SEALDEK® Catalyst per one 5 gallon pail of SEALDEK® may be used.

TECHNICAL DATA

Hardness, ASTM D-2240	60 ± 5 Shore A
Tear Resistance, Die C, ASTM D-624	250 ± 25 pli 44 ± 5 kNm
Tensile Strength, ASTM D-412	1350 ± 150 psi 9.3 ± 1 MPa
Ultimate Elongation, ASTM D-412	675 ± 100%
Water Absorption by weight, ASTM D-471	0.05%
Total Solids by Weight, ASTM D-2369	95 ± 2%
Total Solids by Volume, ASTM D-2697	93 ± 2%
Volatile Organic Compounds, ASTM D-2369-81	<0.5 lb/gal <55 gm/liter

JOINTS, CRACKS, AND FLASHING

Cracks over 4/16 inch (0.16cm) shall be taped before applying basecoat. Prime all joints, cracks, and flashings with recommended SEALDEK® Primer. Primer is optional over new plywood.

Mix pre-accelerated SEALDEK® with water at a ratio of 4:1 (1 gallon of SEALDEK®: 1/4 gallon of water) by volume. Mix thoroughly until water is completely combined with SEALDEK®. Apply SEALDEK® mixture over all joints, cracks, and flashings. Bridge the joints, cracks, and flashings with 4" Polyester Mesh Cloth, pushing it into the sealant with a trowel. Apply a thin coat of SEALDEK® paste over the reinforced cloth and smooth onto adjacent surface.

APPLICATION

For best results use a smooth or notched trowel, or squeegee. Phenolic resin core roller may be used but extra care should be taken not to trap air which may result in bubbles.

Mix pre-accelerated SEALDEK® with water at a ratio of 4:1 (4 gallons of SEALDEK®: 1 gallon of water) by volume. Mix thoroughly until water is completely combined with SEALDEK®. Spread SEALDEK® mixture evenly over the entire deck. Application should not be stopped part way across an area. Each application should be done in one complete step. A continuous application will ensure a smooth and level coat with no lines or streaks to disfigure the deck coating. If applying a broadcast system you must allow SEALDEK® to gel before applying the 14-30 mesh rubber granules into the wet membrane or allow membrane to thicken until #1 or #2 washed dry sand (20 mesh, 6.5 Moh's minimum hardness) can be broadcast without the sand sinking into the membrane. Time for thickening is dependent on atmospheric conditions especially temperature and humidity. Allow coating to cure 2-4 hours before proceeding to subsequent coats.

CURING

Allow each coat to cure (depending on environmental conditions and temperature) a minimum of 2-4 hours and a maximum of 24 hours. If more than 24 hours passes between coats, re-prime the surface with recommended SEALDEK® Primer before proceeding.

SEALDEK® is very sensitive to heat and moisture. 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.

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

STORAGE
SEALDEK® has a shelf life of six (6) months from date of manufacture when stored indoors at a temperature between 60°F to 95°F (15°C to 35°C) in original factory sealed containers

LIMITATIONS
SEALDEK® should be used only as a base membrane. The components of SEALDEK® are not UV stable and are not designed to withstand direct wear/ abrasion.

Ensure that the substrate is properly prepared prior to application. Surfaces to be coated with SEALDEK® must be dry, clean, free of foreign matter, and primed with recommended SEALDEK® Primer. Primer is optional over new plywood.

SWS recommends that an aggregate of washed, dry, rounded, crystal silica sand, 20 mesh (0.0331 in.; 0.84 mm), with 6.5+ Moh's minimum hardness or EPDM rubber granules 14-30 mesh size be used to aid in slip-resistance. Applicator should determine mesh size based on job requirements.

Any remaining material must be tightly sealed to protect it against curing in its container. Containers that have been opened must be used within 1 or 2 weeks since SEALDEK® is a moisture reactive material that begins to cure when exposed to air.

SWS does not recommend that SEALDEK® be diluted with solvents.

For complete information associated with the application of SEALDEK®, refer to System Specifications and Guidelines.

WARNING
This product contains Isocyanates.

For storage and disposal, and health precautions, please refer to product MSDS and labels.

Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local SWS representative or visit our website for current technical data and instructions.

LIMITED WARRANTY
SWS warrants its products to be free of manufacturing defects and that they will meet SWS current published physical properties. SWS warrants that its products, when properly installed by a state licensed waterproofing contractor according to SWS guide specifications and product data sheets over a sound, properly prepared substrate, will not allow water migration for a period of 12 months. Seller's sole responsibility shall be to replace that portion of the product which proves to be defective. There are no other warranties by SWS of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. SWS shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. SWS shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/ or physical movement of the substrate or structural defects are also excluded from the limited warranty. SWS reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

DISCLAIMER
All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the users responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and SWS makes no claim that these tests or any other tests, accurately represent all environments.