59015 Amber Street
Unit D-3
Slidell, LA 70461
Phone: (985) 218-9148
Fax: (985) 218-9148
Email: info@sealdek.com
www.sealdek.com

SPECIFICATION

SEALDEK TW

Tile-Underlayment Waterproofing System

SYSTEM DESCRIPTION

1.01 SEALDEK TW is a solvent free, liquid applied, high solids, Underlayment Waterproofing System for ceramic tile, pavers and shower pan linings.

A. The system utilizes an epoxy-polyamine primer or solvent-free urethane primer, two coats of a pattented technology urethane basecoat.SEALDEK® TW is a specialized application of a polyurethane coating as a waterproof underlayment for ceramic tile and shower pan linings. The system is durable and will protect surfaces against spalling and freeze/thaw damage. The elastomeric system is designed to expand and contract with normal structural movements. The system will not soften in heat nor become brittle in cold. SEALDEK® TW has a wide range of application uses and, installed properly will ensure years of service.

1.02 APPROVALS, CODES & TESTING

- ASTM D-751
- ASTM D-752
- ASTM D-1204
- ASTM D-4068
- ASTM C-482
- ASTM C-836

1.03 FEATURES

- Waterproof
- Durable
- Solvent Free
- Elastomeric
- Economical
- Low Odor

1.04 TYPICAL USES

- Saunas
- Kitchens
- Restrooms
- Steam Rooms
- Shower Pans
- Balconies
- Sundecks (over living space)

1.05 PRODUCT INSTRUCTIONS

A. For complete information associated with the application of SEALDEK® TW, refer to the general guidelines which describes the surface preparation, job conditions, finishing details and other necessary information.

B. All products/materials to be used on this system should be purchased from SEALDEK Waterproofing Systems. For details on individual product, please refer to Product Technical Data Sheet.

APPLICATION

2.01 Inspection

A. Check area of application to ensure that it conforms to the substrate requirements, as stated in the general guidelines section.

2.02 Repairs

A. Apply a polyurethane caulking or SEALDEK® mixed material over all joints, cracks and flashing. **SEALDEK® mixed material is a mixture of 4 part SEALDEK® and 1 part of water by volume**.

B. Bridge the joints, cracks, and flashings with 4" (10 cm) polyester cloth pushing it into the polyurethane caulking or SEALDEK® mixed material with a trowel.

NOTE: Using SEALDEK® mixed material as a caulking compound will shorten the curing time appreciably over conventional polyurethane caulks.

Conventional polyurethane caulks must be allowed to dry and/or outgas before proceeding with a membrane system.

C. Over reinforcement tape, apply a stripe coat of SEALDEK® and taper it onto the adjacent surface.

D. Allow the surface to cure for 1 to 2 hours.

2.03 Priming

A. Use one of the following primers based on substrate:

- SEALDEK® EP#1
- SEALDEK® EP#1
- MAX-E-Prime

B. Allow primer to become tack free before proceeding to Coating Application. The point at which the primer is generally discerned as nearly tack free is when the primer passes the thumbprint test. The thumbprint test is defined by when a thumbprint is left in the primer and the primer does not transfer onto the thumb If the primer has been allowed to remain tack free for more than 12 hours, it is necessary to solvent wipe the primed area and re-prime.

C. Primer is optional on new, untreated plywood.

D. Metal flashings should be sealed with polyester cloth prior to the coating application. Metal flashings can also be primed with SEALDEK® EP#2 after they have been mechanically abraded with an angle grinder and wire brush cup, follwed by a rag with xylene solvent wipe to remove loose particles or oil film.

2.04 First Coating Application

A. Apply mixed SEALDEK® to substrate at a rate of 3½ gallons/100 sq. ft. Application will require more or less material depending on substrate requirements. Use a notched trowel or squeegee to spread SEALDEK® evenly over the entire deck resulting in a minimum 50 ± 2 dry mils thick membrane.

B. Allow SEALDEK® to cure a minimum of 4 to 8 hours or until firm enough to support the weight of the installer without damaging the product.

2.05 Second Coating Application

A. Apply a second coat of SEALDEK® at a rate of 1 gallon/100 sq. ft. (0.41 liters/m²).

B. Immediately broadcast aggregate into the wet coating until refusal. Use dry, clean angular crystal sand, 16 grit or larger.

C. This coat will result in a min. 14 ± 2 dry mils (355 ± 50 microns) thick membrane , exclusive of aggregate.

D. Allow the membrane to cure a minimum of 12 to 16 hours, remove the excess aggregate, and apply thin set or mortar when ready for tile installation. For faster cures, contact us.

E. When utilizing a mortar bed over the SEALDEK® TW, allow the completed membrane to cure a minimum of 6-8 hours prior to installation of the float. A water test can be conducted after 24 hours.

2.06 FINISHED SYSTEM

When applied as directed above, SEALDEK® TW will provide 60± 2 dry mils, exclusive of aggregate, of superior waterproofing protection.

2.07 LIMITATIONS

A. Concrete:

1) The following conditions must not be coated with SWS deck coating systems or products: slabs over unvented metal pan, swimming pool interiors, magnesite, gypsum, asphalt surfaces, asphalt overlays and where chained or studded tires may be used.

2) Concrete must exhibit 3000- psi minimum strength. Concrete surfaces to be coated must be trowel finished in compliance with the American Concrete Institute (except that hand troweling is not required), followed by a fine hair brooming, left free of loose particles, and shall be without ridges, projections, voids and concrete droppings that would be mechanically detrimental to coating application or function.

3) New concrete must be cured for 28 days.

4) Concrete cleaning (see general guidelines).

B. **Plywood:**

1) The only acceptable grade of plywood is APA rated exterior grade or better.

2) The appearance characteristics of the panel grade should be considered.

3) Plywood should be new or cleaned and sanded (see general guidelines).

C. SWS Decking Systems will not withstand rising water tables or hydrostatic pressure on slab-on-grade decks.

D. Uncured materials are sensitive to heat and moisture.

E. Proper coating application techniques should ensure a deck with no lines or streaks.

F. The substrate must be structurally sound and sloped for proper drainage.

G. SWS assumes no liability for substrate defects.

2.08 Job Completion

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

B. Field visits by SWS personnel are for the purpose of making technical recommendations only and are not to supervise or provide quality control on the job site.

WARNING: The products in this system contain Isocyanates, Solvent, Epoxy Resin and Curatives.

Please read all information in the general guidelines, product data sheets, system 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.