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SPECIFICATION

SEALDEK WD

55 Dry Mils Water Curable, Fast Cure Walking Deck Coating System for Plywood, Concrete and Metal Surfaces

SYSTEM DESCRIPTION

1.01 SEALDEK WD is a liquid applied, high solids, water catalyzed polyurethane, waterproof Pedestrian Deck System.

A. The system utilizes a primer, one coat of a pattented technology basecoat and two coats of an aliphatic urethane topcoat. SEALDEK WD can be applied to protect surfaces against spalling, freeze/thaw damage, and chemicals commonly encountered on these surfaces. It is an elastomeric system designed to expand and contract with normal structural movements. It will not soften in heat nor become brittle in cold. SEALDEK WD is a proven waterproofing system primarily used on plywood, concrete and metal surfaces. Installed and maintained properly, SEALDEK WD decking system will ensure years of service.

1.02 FEATURES

- ❖Seamless
- ❖Elastomeric
- ❖TDI Free
- ❖Non-Gassing
- ❖Fast-Curing
- ❖Recoatable
- ❖Good Weatherability

1.03 TYPICAL USES

- ❖Walkways / Stairs
- ❖Balconies
- ❖Over Occupied Space
- ❖Sun Decks
- ❖Patios
- ❖Roof Decks

1.04 PRODUCT INSTRUCTIONS

A. For complete information associated with the application of SEALDEK WD, 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 Classic or Flex 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 mixed material and taper it onto the adjacent surface.

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

2.03 Priming

A. Prime surface with SEALDEK EP#1 or EP#2 at a rate of 1 gallon (mixture of Part-A & Part-B) per 300 sq. ft. (0.14 liters/m²), or MAX-E-PRIME. Apply using a brush or phenolic core roller. This will result in 3 dry mils (76 microns) of coating.

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 only be sealed with SEALDEK EP #2. All metal flashings should be mechanically abraded with an angle grinder and wire brush cup, followed by a rag with xylene solvent wipe to remove loose particles or oil film.

2.04 Coating Application

A. Apply SEALDEK mixed material to substrate at a rate of 5 gallons/100 sq. ft. (1.2 liters/m²). Application will require more or less material depending on substrate conditions.

B. Use a notched trowel or squeegee to spread SEALDEK mixed material evenly over the entire deck resulting in a min. 70 ± 2 dry mils thick membrane.

C. When SEALDEK mixed material

begins to gel, broadcast 14-30 mesh rubber granules until refusal. The amount of rubber used will vary. (Normal usage is 20 lbs rubber granules/100 sq. ft.)

D. When the SEALDEK mixed material is stiff enough to support the weight of the installer without damaging the coating, or when coating is dry (approximately 2-3hours), remove all loose aggregate, preferably by vacuum.

2.05 Top Coat Application

A. Apply desired color of SEALDEK EST at a rate of 1gallons/100 sq. ft. (0.4 liters/m²). This coat will result in an additional 10 ± 2 dry mils (254 ± 50 microns) thick coating.

B. At 70°F and 50% relative humidity allow a minimum of 16 and a maximum of 48 hours for topcoat to cure.

C. Optional second coat: It is recommended to apply a second coat of desired color of SEALDEK EST at a rate of ¾ gallons/100 sq. ft. (0.31 liters/m²). This coat will result in an additional minimum 8 ± 2 dry mils (203 ± 50 microns) thick coating.

D. OPTIONAL FAST CURE
Topcoat: The addition of SEALDEK Accelerator will shorten cure time to 6 to 8 hours for each coat.

E. OPTIONAL TOPCOATS
SEALDEK EST may be substituted with:

1) SEALDEK ASP

2) SEALDEK 500

3)MAX-E-GRIP

2.06 FINISHED SYSTEM

A. When applied as directed above, SEALDEK WD decking system will provide min. 55 ± 5 dry mils (1396 ± 100 dry microns) with single topcoat and min 63 ± 5 dry mils (1600 ± 100 dry microns) with additional second topcoat, exclusive of aggregate, of superior waterproofing protection.

2.07 LIMITATIONS

A. **Concrete:**

1)The following conditions must not be coated with SEALDEK deck coating systems or products: sandwich slabs with insulation, slabs over unvented metal pan, swimming pools, magnesite, gypsum lightweight concrete, 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. SEALDEK 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. A continuous coating application 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.