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FLEXIDECK™ P-PKD
*43 Dry Mils Water Curable, Fast Cure
 Parking Deck Coating System for
 Concrete Surfaces*

SYSTEM DESCRIPTION

1.01 Flexideck™P-PKD is a liquid applied, high solids, water catalyzed polyurethane, waterproof Parking Deck System.

A. The system utilizes a primer, one coat of a water induced urethane basecoat and two coats of an aliphatic urethane topcoat. Flexideck™ P-PKD 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. Flexideck™ P-PDI is a proven waterproofing system primarily used on plywood, concrete and metal surfaces. Installed and maintained properly, Flexideck™ P-PKD decking system will ensure years of service.

1.02 FEATURES

- ❖Seamless
- ❖TDI Free
- ❖Non-Gassing
- ❖Recoatable
- ❖Meets AQMD Requirements
- ❖Elastomeric
- ❖Fast-Curing
- ❖Good Weatherability California VOC and

1.03 TYPICAL USES

- ❖Parking Decks
- ❖Over Occupied Space
- ❖Patios
- ❖Balconies
- ❖Sun Decks
- ❖Roof Decks

1.04 PRODUCT INSTRUCTIONS

A. For complete information associated with the application of Flexideck™ P-PKD, refer to the general guidelines section of the PSI catalog 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 Poly-Tuff Systems International (PSI) or its distributors or approved by PSI. For details on individual product, please refer to Product Technical Data Sheet.

APPLICATION

2.01 Surface Preparation

A. Surfaces shall be broom clean, dry, sound and free of voids, bugholes, rockpockets, honeycombs, protrusions, excessive roughness, foreign matter, frost, ice and other contaminants which may inhibit application or performance of the waterproofing coating system.

B. Use suitable abrasive methods, remove residue of form release, curing compound, chemical retarders and other surface treatments, mortar smear, saw-cutting residue, mill scale, rust, loose material and other contaminants from concrete, masonry and ferrous metal surfaces to receive the work of this Section.

C. Concrete: Where work of this Section will be applied to concrete, provide surfaces that are smooth with finish equal to one that is light steel troweled followed by a fine hair broom.

D.. Decks:

1. Slope deck surfaces to drains that have flanges at coating level which are flush with deck surfaces.
2. Rigidly install pipe, vents and other surface protrusions, properly flash them, and cover to prevent entry of coating materials.

- E. Metal flashings: Where metal flashings are substrate to waterproofing coating, set the flashings in continuous bedding bead of urethane sealant; install sealant S-bead between metal laps and mechanically fasten to substrate along leading edges at every 4" on center, staggered linearly, to lay flat without fishmouths.
- F.. Joints: Configuration shall be consistent with this Section and with all other requirements of the Contract Documents.
- G. 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 P-Tuff® Classic mixed material over all joints, cracks and flashing. P-Tuff™ Mixed Material is a mixture of 4 part P-Tuff® Classic and 1 part of water by volume.
- B. Bridge the saw joints, cracks, Use P-Tuff® Classic mixed material as a caulking compound for an appreciably shorter cure time over conventional polyurethane caulks.
- C. Allow the surface to cure for 1 to 2 hours.

2.03 Priming

- A. Prime surface with Envirogrip® EP#2 at a rate of 1 gallon (mixture of Part-A & Part-B) 300 sq. ft. (0.14 liters/m²). Apply using a brush or phenolic core roller. This will result in 3 dry mils (76 microns) of coating.
- B. Allow PSI Primers to become thumbprint tacky before proceeding to Coating First Application.
- C. Primer is optional on new plywood.
- D. Metal flashings should only be primed with Envirogrip® 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 B-Tuff 302 or P-Tuff® Classic mixed material to substrate at a rate of 2 gallons/100 sq. ft. (0.82 liters/m²). Application will require more or less material depending on substrate conditions.
- B. Use a notched trowel or squeegee to spread P-Tuff® Classic mixed material or B-Tuff 302 evenly over the entire deck resulting in a min. 25± 2 dry mils (625 ± 50 microns) thick membrane.
- C. When P-Tuff® Classic mixed material begins to slightly gel, broadcast 20 mesh silica sand till refusal. The amount of sand used will vary. (Normal usage is 18-20 lbs of sand /100 sq. ft.)
- D. When the P-Tuff™ Classic 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 Intermediate Coat Application

- A. Apply desired color of Topshield™ AR 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. Drive and Turn lanes should receive an additional top coat of Topshield AR at 100 sf/p/gal.

2.06 Top Coat Application

- A. Apply desired top coat of Topshield EST or Topshield AR at a rate of 3/4 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.

B. OPTIONAL FAST CURE

Topcoat: The addition of Topshield™ Accelerator will shorten cure time to 6 to 8 hours for each coat.

C. OPTIONAL TOPCOATS

- 1) Chem-sentry™ II for chemical resistance
- 2) B-Tuff™ 5600 for ultra-fast cure

2.07 FINISHED SYSTEM

A. When applied as directed above, P-Tuff® P-PKD decking system will provide min. 43 ± 2dry mils (1067± 100 dry microns) with single topcoat, exclusive of aggregate, of superior waterproofing protection.

2.08 LIMITATIONS

A. Concrete:

- 1) The following conditions must not be coated with PSI deck coating systems or products: on grade or below grade slabs, split slabs with buried membrane, sandwich slabs with insulation, slabs over unvented metal pan,

suspended pool decks, 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 broom finish, 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. PSI Decking Systems will not withstand rising water tables or hydrostatic pressure on slab-on-grade decks.

C. Uncured materials are sensitive to heat and moisture.

D. A continuous coating application should ensure a deck with no lines or streaks.

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

F. PSI 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 PSI 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.
