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TECHNICAL DATA

PERMA-TUFF SL

COATING DATA

DESCRIPTION:

PERMA-TUFF SL is a two component, 100% solids, high performance, self-leveling epoxy coating. This system provides a high gloss, seamless surface that is extremely hard wearing, durable and chemically resistant. Its film thickness can be varied to accommodate a wide range of flooring conditions.

USE:

As a high performance flooring system for properly prepared concrete floors.

SURFACE PREPARATION:

New Concrete: All surfaces must be sound, free of any laitance or efflorescence, free of any adverse moisture conditions, have an appropriate surface profile, and be cured 28 days before coating. Form release agents, sealers, curing compounds, salts, hardeners and other foreign matter will interfere with adhesion and must be removed. Shot blasting, mechanical scarification, suitable chemical means, or abrasive blasting should be employed to prepare substrate.

Old Concrete: Coating older, uncoated concrete floors is done in much the same manner as new concrete. Before preparation the concrete surface must be thoroughly cleaned with a strong detergent to remove all grease, oils, etc., and all loose concrete must be removed. Holes and cracks should be filled with EFS-707 before application of PERMA-TUFF SL.

Previously Painted Surfaces: If the coating is peeling or degrading in any way, it should be completely removed by sanding, blasting or stripping. If existing coating is completely intact, the surface may be cleaned with a strong detergent or solvent and scuff sanded to remove the gloss. A test patch should be done by applying a small amount of coating over the old paint. The old finish may wrinkle or lift within 60 minutes. If it does not, wait 5 days and test for adhesion and compatibility per ASTM D3359.

COVERAGE:

Theoretical – 1600 ft sq per gallon at 1.0 mil dry film thickness.

DRY FILM THICKNESS:

10-30 mils per coat

WET FILM THICKNESS:

10-30 mils per coat

APPLICATION DATA

APPLICATION:

Pour mixed material directly on the surface in a long puddle and spread using either a flat or a notched rubber squeegee, depending on film thickness requirements. Check film thickness frequently. If any air entrapment or film defects are noticeable after a minimum of 15 minutes, but no longer than 30 minutes set up time, material should be rolled with a spiked roller to remove any entrapped air. Do not spike roll after 30 minutes. If an anti-slip texture is desired, broadcast a clean, dry 30 to 50 mesh silica sand into the first coat until it is saturated (approximately ½ lb per sf) and only dry sand is showing. After the first coat has set (6 hours minimum), sweep and/or vacuum excess sand off the surface. This process must be repeated if a double broadcast system is specified. Then topcoat with 15-25 mils of PERMA-TUFF SL. Lower topcoat thicknesses will produce more pronounced anti-slip profile, heavier topcoats will produce smoother profiles. Spike rolling is not necessary when PERMA-TUFF SL is applied as a broadcast system.

BLEND RATIO:

Add PERMA-TUFF SL Part B Activator to PERMA-TUFF SL Part A Base. Premix Part A for approximately one minute then pour activator into premixed part A. Mix 2 to 3 minutes moving blade around while mixing. Avoid whipping air into material. It is strongly recommended that only full units be used, that both components are thoroughly mixed, and that all material from the bottom and sides of the container is mixed. Use of partial kits is not recommended. Do Not scrape or drain mixing containers. Do Not thin this material.

POT LIFE:

30 minutes at 70° F.

CLIMATE:

Storage of this material at temperatures between 60-80° F will enhance the workability of the mixed material. Use this product only if the substrate temperature and ambient air temperature are between 50° F minimum and 100° F maximum. Also, the substrate must be 5° F above the dew point for a period of two hours after application to avoid condensation occurring on a wet coating.

CURING TIME:

To recoat: 8 hours minimum at 72° F @ 50% RH, 72 hours maximum at 72° F @ 50% RH

Foot Traffic: 24 hours minimum @ 72° F @ 50% RH

Heavy Service: 72 hours minimum @ 72° F @ 50 % RH

Full Cure: 5 days at 72° F @ 50% RH

Note: Lower temperature, higher film build, and/or poor ventilation will retard dry time.

PHYSICAL DATA:

Volume Solids: 100% (mixed)

Solids by Weight: 100% (mixed)

Weight per Gallon: 12.34 ± 0.2 lbs

Volatile Organic Compounds: 0.0 lbs/gallon

Hazardous Air Pollutants (HAPS): 0.0 lbs/gallon

Colors: A wide variety of colors.

SAFETY DATA:

See individual product label for safety and health information. Individual Material Safety Data Sheets are available upon request.