PRODUCT DESCRIPTION

Level Coat is a 100% solids, zero VOC, blush-resistant, self-leveling epoxy. This basecoat is designed to be used where high-build and durability are needed. This workhorse epoxy has toughness and good chemical resistance.

PRODUCT APPLICATION

READ ALL INSTRUCTIONS CAREFULLY BEFORE STARTING PROJECT

SURFACE PREPARATION

Concrete and coated concrete surfaces must be sound, clean, dry and free of contaminants such as dirt, dust, grease, oil, silicones and other contaminants that may negatively affect adhesion.

MOISTURE VAPOR BARRIER:

A suitable moisture barrier must be in place for concrete slabs on-grade. If a moisture barrier is not in place, seasonal variations in ground moisture can cause excessive moisture vapor transmission (MVT) regardless of results measured prior to coating application. MVT rate must not exceed three pounds per 1,000 square feet per 24 hours, as directed by ASTM F1869. The relative humidity (RH) of the slab must not exceed 75%, as directed by ASTM F2170. If there is a moisture situation in excess of the above rate, the use of Dry Coat Pro may be required.

NEW/BARE CONCRETE:

Mechanically prep to a CSP 3 or greater surface profile, depending on total thickness of system. Refer to SSPC-SP13/NACE 6 or ICRI Technical Guideline No. 310.2.
New concrete must be cured a minimum of 28 days and should meet moisture vapor transmission (MVT) and relative humidity (RH) thresholds as described previously in Surface Preparation section.

PREVIOUSLY COATED SURFACES:

Clean surface to prevent any contaminants from being spread/redistributed to a greater area being prepared. Completely remove previous coatings, sealers, joint fillers, and patching materials. Shotblast to a CSP-3 or greater surface profile. Refer to SSPC-SP13 / NACE 6 or ICRI Technical Guideline No. 310.2.

EQUIPMENT RECOMMENDATIONS

ROLLER: Use a high quality 3/8” inch lint-free roller with a phenolic core.
BRUSH: Use a disposable natural fiber chip brush, 2-4 inch wide for cut in work.
SQUEEGEE: Use a 1/4” notched squeegee.

APPLICATION

Level Coat mix ratio is 2 Parts Base to 1 part Activator by volume.

1. Pre-mix Base at low speed for 1 minute. If pigmenting, add tint into the Base. Add Part B and mix for three minutes until uniform. Do not mix more material than can be applied in 10 – 15 minutes (material will stiffen or tack- up.)
2. Immediately pour all mixed Level Coat on the floor in a long bead approximately 8 – 12 inches wide. Do not scrape sides or leave pail overturned to drain.
Do not attempt to roll material out of a bucket or roller pan.
3. Wearing spiked shoes, spread evenly at 10 – 30 mils by pushing a 1/8" notched squeegee along the bead. Overlap previous passes in order to ensure consistent coverage.
4. Push the squeegee with a slight angle to plow extra material to the side, moving it down the floor.
5. Using a non-shed 3/8" roller, back-roll the Level Coat evenly across the squeegee passes to minimize application lines and leave a consistent film thickness. Do not back-roll material after it begins to get sticky. The epoxy will not level and colored epoxy may turn a different shade.

CLEAN-UP

Clean up mixing and application equipment immediately after use. Use acetone or xylene; do not use alcohol. Follow solvent manufacturer's safety instructions. Be sure to follow all local, state and federal regulations when disposing of materials.

FOOD SAFE

This document serves to confirm that the products listed below meet the performance criteria set forth in the U.S. Department of Agriculture (USDA) “Sanitation Performance Standards Compliance Guide” and the U.S. Food and Drug Administration (FDA) “2005 Food Code.” These standards apply to paints and coatings utilized in food processing plants and food establishments. It should be noted that the USDA and FDA have ceased issuing product approval letters to coatings manufacturers. Instead, it is required that coatings applied on walls and ceilings in relevant facilities adhere to regulatory standards and be certified as follows:

Garage Force certifies that the following products comply with Title 9, Part 416.2(b) of the Code of Federal Regulations and the FDA “2005 Food Code” when used as topcoats on walls, floors, and ceilings. When applied according to the instructions on the label, these products will not cause insanitary conditions nor will they adulterate food products. Furthermore, they are not classified as pesticides and do not exhibit pesticidal properties.

Upon request, Garage Force will provide the complete chemical composition of these products to the Food Safety Inspection Service (FSIS). It remains the responsibility of the end user to consult with the local FSIS inspector to verify if any additional requirements are applicable for the specific use intended.

SHELF LIFE

12 months from date of manufacture when stored indoors in the original unopened container at 60°F – 85°F (16°C – 29°C) in a dry location with humidity below 65%. Do not allow materials to freeze.

LIMITATIONS

- Do not apply at a temperature or thickness not recommended.
- Do not delay in pouring mixed material onto the floor.
- Do not apply over loose or unsound concrete, asphalt or bitumen substrates, glazed tile or nonporous brick and tile, magnesite, copper, metal, polyesters, or elastomeric membranes.
- Moving joints and shrinkage cracks may reflect through system. Joints that are designed to move may reflect through the finished flooring system if the are not honored.
- Tire marking may occur.

PHYSICAL PROPERTIES

Solids by Volume	100%
Solids by Weight	100%
VOC (EPA Method 24)	0 g/l
Mixing Ratio	2:1 (Part A to Part B)
Mixed Viscosity	900-1000 cP
Work Time	20-30 minutes
Practical Coverage Rate	50 - 160 sq.ft./gal.

Cure Times @ 72°F and 50% Relative Humidity*

Tack Free	5.5 hours
Minimum Recoat	8 hours
Maximum Recoat	24 hours
Light Foot Traffic	10-16 hours
Heavy Traffic	2 days
Full Cure	5 days

Temperature

Air	60° - 85° F	(16° - 29° C)
Surface	60° - 85° F	(16° - 29° C)
Material	60° - 85° F	(16° - 29° C)

**Higher temperatures will shorten pot-life and working time. Floor temperature must be at least 5 degrees over the current dew point.*

Performance Characteristics

TENSILE STRENGTH
METHOD: ASTM D638
TYPICAL VALUE: 9,600 PSI

FLEXURAL STRENGTH
METHOD: ASTM D790
TYPICAL VALUE: 12,800

COMPRESSIVE STRENGTH
METHOD: ASTM C695
TYPICAL VALUE: 11,600 psi

HARDNESS, SHORE D (24 hours)
METHOD: ASTM D2240
TYPICAL VALUE: 75

GLOSS
METHOD: ASTM D523 @60°
TYPICAL VALUE: 90+