



HIGH PERFORMANCE EPOXY

2-PART EPOXY COATING FOR CONCRETE

DESCRIPTION

HIGH PERFORMANCE EPOXY is a 2-component, 100% solids, high-performance coating that provides a high gloss, high-build protection for concrete, rigid surfaces and masonry.

PRIMARY APPLICATIONS

- Warehouse and garage floors
- Food processing, kitchens, food storage areas
- Pharmaceutical plants
- Manufacturing plants, workshops
- Education facilities and hospitals
- Light commercial/industrial facilities

FEATURES/BENEFITS

- Versatile: coatings, broadcast floors, chips, METAL FX
- High film build
- High gloss
- Chemical resistant
- Stain and scratch resistant
- Low odor

TECHNICAL INFORMATION

The following results were developed under laboratory conditions @ 75 °F (24 °C)

Mix Ratio (by Volume).....2:1	VOC Content<50 g/L
Gel Time , 200 g, minutes.....35 to 45	Tack Free , hrs.....4 to 5
Pot Life , 3 gal (11.4 L), minutes.....15 to 25	Abrasion Resistance , ASTM D 4060...32 mg loss
Compressive Strength , ASTM D 695 @ 7 days psi (MPa).....6,700 (46.2)	Tensile Strength , ASTM D 638 psi (MPa).....5,500 (37.9)
Hardness, Shore D , ASTM D 2240.....85 to 90	Tensile Elongation , ASTM D 63815 to 30%
Bond Strength , ASTM D 4541...Greater than concrete	Abrasion Resistance , ASTM D 4060...32 mg loss
Water Absorption , ASTM D 570 @ 24 hours....<0.5%	Flammability , ASTM D 635 Self Extinguishing.....
Monolithic Surfacing , ASTM C 722.....Passes0.75 Max

PACKAGING

HIGH PERFORMANCE EPOXY is packaged in 1 gal (3.8 L) and 3 gal (11.4 L) kits.

SHELF LIFE

2 Years in original, unopened containers.

SPECIFICATIONS/COMPLIANCES

USDA compliant

COVERAGE

Coverage/U.S.Gallon (3.78 L)

10 mils 160 ft ² (250 μm 5.0 m ²)	Application equipment and method will have a significant effect on coverage rates as will temperature.
20 mils 80 ft ² (400 μm 7.5 m ²)	
40 mils 40 ft ² (1000 μm 3.7 m ²)	

DIRECTIONS FOR USE

SURFACE PREPARATION: New concrete should be allowed to cure for a minimum of 28 days before coating. The concrete must be structurally sound, free of loose or deteriorated concrete and free of dust, dirt, paint, efflorescence, oil and other contaminants. Mechanically abrade the surface to achieve a surface profile equal to CSP 2-4 in accordance with ICRI Guideline 310.2. Properly clean profiled area. The pH of the surface should be checked per ASTM D 4262. Following surface preparation, the cleaned surface should have a minimum surface tensile strength of 200 psi (1.4 MPa) when tested with an Elcometer or similar pull tester (ASTM D 4541). Before application of the epoxy, use the "Visqueen test" (ASTM D 4263) or "Calcium Chloride Test" (ASTM F 1869) to evaluate the moisture level in the concrete. Do not proceed if a moisture vapor drive condition exists. Moisture vapor emission rate may vary over time depending upon environmental conditions. All steel surfaces should be blasted in accordance with SSPC-SO10 or NACE #2 to a "NEAR WHITE" finish using clean, dry blasting media.

MIXING: Pre-mix Part A and Part B, then combine 2 parts by volume of Part A with one part by volume of Part B and thoroughly mix using a low speed drill motor and a "Jiffy" type mixer. Mix only the amount of material that can be applied during the pot life. Do not aerate the mix.

APPLICATION: See the "Application Guide for Euclid Chemical Decorative and Industrial floor Coatings" for complete instructions.

CLEAN-UP

Clean tools and application equipment with SOLV-KLEEN, methyl ethyl ketone or acetone immediately after use. Clean spills or drips with solvent while still wet. Dried HIGH PERFORMANCE EPOXY will require mechanical abrasion for removal.

PRECAUTIONS/LIMITATIONS

- Store at temperatures between 50 to 90 °F (10 to 32 °C).
- Do not aerate during mixing.
- Do not mix or apply unless surface, air, and material temperatures are 50 °F (10 °C) and rising.
- Do not apply if surface temperature is within 5 °F (-15 °C) of the dew point in the work area.
- Cure new concrete 28 days before application.
- Do not apply to slabs on grade unless a heavy uninterrupted vapor barrier has been installed under the slab.
- Do not apply if the floor is subject to moisture vapor drive or hydrostatic pressure.
- HIGH PERFORMANCE EPOXY will yellow upon prolonged exposure to sunlight or high intensity artificial lights. For applications requiring color stability, urethane should be used as a topcoat.
- Although epoxy coatings are chemically resistant, the surface may stain after contact with some chemicals. A urethane topcoat is recommended for improved stain resistance.
- For professional use only.
- In all cases, consult the Safety Data Sheet before use.

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