



GRANITE COAT

VINYL-CHIP EPOXY FLOORING SYSTEM

HIGH PERFORMANCE FLOOR COATINGS

GRANITE COAT

MASTER FORMAT #:
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DESCRIPTION

GRANITE COAT is an attractive, seamless floor that is chemical-and-abrasion resistant. Utilizing a clear, 100% solids epoxy with a blend of colored vinyl chips, GRANITE COAT provides positive footing or a smooth, high-gloss appearance.

PRIMARY APPLICATIONS

- Manufacturing plants
 - Kitchens
 - Chemical processing
 - Lobbies
- Food processing
 - Schools
 - Hospitals
 - Restaurants
- Locker rooms
 - Rest rooms
 - Walkways
 - Jails

FEATURES/BENEFITS

- Decorative, aesthetic appearance
 - Alternative to trowel-applied systems
 - Low odor
 - High abrasion resistance, chemical resistance
- Seamless
 - Easy to maintain
 - Long-term service life
 - 6 Color blends to choose from

TECHNICAL INFORMATION

Material properties @ 75 °F (24 °C)

Mix Ratio (by Volume).....2:1	Hardness, Shore D ASTM D 2240.....85 to 90
VOC Content< 50 g/L	Abrasion Resistance , ASTM D 4060.....32 mg loss
Pot Life , 3 gal (11.4 L)/min.....15 to 25	Tensile Elongation , ASTM D 638 %.....15 to 30
Gel Time , 200 g/min.....35 to 45	Monolithic Surfacing , ASTM C 722.....Passes
Tack Free , hrs.....4 to 5	Bond Strength , ASTM D 4541.....Greater than Concrete
Compressive Strength , ASTM D 695	Water Absorption , ASTM D 570 @ 24 hrs.....<0.5%
Neat resin, @ 24 hrs.....7,500 psi (51.7 MPa)	Flammability , ASTM D 635
@ 7 days.....9,800 psi (67.6 MPa)	Self Extinguishing.....0.75 Max

PACKAGING

HIGH PERFORMANCE EPOXY is packaged in 1 gal (3.8 L) and 3 gal (11.4 L) units. GRANITE COAT chips are available in 20 lb (9.07 kg) boxes and 55 lb (25 kg) packages. Roman Red is available in 50 lb (22.7 kg) packages. GRANITE COAT is available in Charcoal, Light Gray, Aegean Blue, Mica, Camouflage, and Roman Red.

SHELF LIFE

2 Years in original, unopened containers.

COVERAGE

HIGH PERFORMANCE EPOXY Coverage:
 Unit Thickness Coverage
 1 gal (3.78 L) 10 mils (250 μm) 160 ft² (15 m²)

GRANITE COAT CHIPS:
 Full coverage 5-7 ft²/lb (1-1.4 m²/kg)
 Partial coverage 25-200 ft²/lb (5.1-40.9 m²/kg)

*Application equipment, method, and temperature will have a significant effect on coverage rates.

DIRECTIONS FOR USE

SURFACE PREPARATION: This epoxy floor coating system is designed for application on concrete substrates.

Newly placed concrete surfaces should be cured for a minimum of 28 days prior to coating. Concrete surfaces 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 2-3 in accordance with ICRI Guideline 310.2. Properly clean profiled area. The pH of the surface should be checked according to 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 applying the coating, 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-SP10 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 mix thoroughly 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: Spread the mixed epoxy with a notched squeegee while wearing spiked shoes. Start from one end of the floor and work backwards and sideways trying to keep a wet-to-wet edge. The coating should then be rolled in one direction using a 3/8 in (9.5 mm) nap, shed-resistant roller. Make sure that the material is applied as quickly as possible without leaving puddles.

BROADCAST: Toss GRANITE COAT chips evenly, in a high arcing motion into the wet epoxy. Allow to cure. Scrape off excess flakes.

TOPCOAT: Apply clear HIGH PERFORMANCE EPOXY coat as directed. For greater abrasion and chemical resistance a final coat of URETHANE, or URETHANE WATER BASED, may be applied.

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 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 or URETHANE WATER BASED should be used as a topcoat.
- Although epoxy coatings are chemically resistant, surface staining of the coating may occur after contact with some chemicals. Apply a urethane top coat for additional protection against chemicals.
- For professional use only.
- In all cases, consult the Safety Data Sheet before use.

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