

DESCRIPTION

PolySpec® LATEX 12 Concrete is designed to produce a smooth, spark resistant and fire retardant surface. It is also used in areas where deep fills are needed and/or spark resistant qualities are desired. PolySpec® LATEX 12 Concrete is recognized on the U.S. Government's Qualified Products List under the Department of Defense Specification MIL-D-21631. It eliminates the electrolytic action previously encountered when magnesite type fill came in contact with the aluminum channels.

TYPICAL APPLICATION

• Grip Bond System	408 Emulsion and AC Compo @ 1/8" thickness
• Body Coat	PolySpec® LATEX 12 @ 1" thickness

PERFORMANCE DATA

Compressive Strength 10,900 psi
 Impact Resistance (MIL d 3135)..... 0.009" – No chipping, cracking or
 detachment from the steel plate
 Weight (MIL D 3135) 2.4 lbs/sq.ft@ 1/4" thickness

STORAGE & INSTALLATION

Storage Environment Dry area, 65–80°F
 Application Temperature, ambient 50–85°F
 Application Temperature, substrate Minimum 5°F above dew point
 Service Temperature Maximum 150°F
 Shelf Life 12 months
 Foot Traffic, @ 77°F..... 24-36 hours
 Full Service, @ 77°F Minimum 36-48 hours

Material cures more slowly at cooler temperatures, and working time will be substantially reduced at higher temperatures. In hot weather, material should be cooled to 65°F to 80°F prior to mixing and application to improve workability and avoid shortened pot life. The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result.

CONSIDERATIONS & LIMITATIONS

1. Floors should be sloped to drain to prevent standing water or chemicals. As with any surface, all spills should be removed as soon as possible to prevent a slipping hazard.
2. Confirm product performance in specific chemical environment prior to use.
3. Prepare substrate according to "Surface Preparation" portion of this document.
4. Always use protective clothing, gloves and goggles consistent with OSHA regulations during use. Avoid eye and skin contact. Do not ingest or inhale. Refer to Material Safety Data Sheet for detailed safety precautions.
5. For industrial/commercial use. Installation by trained personnel only.

PolySpec® LATEX 12

TECHNICAL DATA SHEET

Light Weight polymer Modified Concrete

BENEFITS

- Spark resistant
- Applied up to 3"
- Non-corrosive
- Very tough

RECOMMENDED USES

- Between aluminum channels in cargo ammunition holds
- Reefer boxes
- To level uneven surfaces
- Deep pour applications

GENERIC DESCRIPTION

Polymer Modified Concrete

PACKAGING / COVERAGE

PolySpec® GRIP Bonding System

408 Emulsion 5 - Gallon Unit / 300 sq. ft
 AC Compo 40 - Pound Bag / 50 sq. ft

PolySpec® LATEX 12 Body Coat @ 1"

LATEX 12 Powder 50 - Pound Bag / 5 sq. ft
 18.003 Emulsion 5- Gallon Unit / 50 sq. ft



SURFACE PREPARATION

Steel: For steel surfaces, a “Near White Metal” ultra high-pressure wash or abrasive blast with anchor profile of 2–4 mils in accordance with Steel Structures Painting Council Specification SP-10 or NACE No. 2 is required.

PRECAUTIONS

1. Do not apply to slabs on grade unless a heavy unruptured vapor barrier has been installed under the slab.
2. Do NOT attempt to reactivate PolySpec LATEX 12 Concrete once it starts to set up.
3. Never install in freezing temperatures.

INSTALLATION STEPS

1. **The GRIP Bonding system:** Two 40 lbs. bags of AC Compo should be mixed with 1 3/4 - 2 gallons of 408 Emulsion. It is suggested that about 1-1/2 gallons of the emulsion be poured into the mixing container (20 gal.) with the powder being added to the liquid. A mechanical drill mixer is recommended. The balance of the emulsion should then be added and the resulting mix should be flat troweled tight to the deck leaving a coarse, open surface and making certain that it is not excessively thick. Immediately after troweling, a coarse, stiff bristle broom should be passed over the surface to provide furrows that produce the proper surface texture. This material should be allowed to dry overnight before applying the PolySpec Latex 12 Body Coat.
2. **Body Coat:** Combine 18.003 Emulsion (1/2 – 5/8 gallon) and LATEX 12 Powder (1 bag) to produce a consistency of a trowelable mortar. Use the flat of the trowel to compact the floor and bring the emulsion up to the surface to make troweling easier.
3. **Cleaning Equipment:** Clean equipment with water before the LATEX 12 mixture hardens.
4. **Curing Cycle:** The thickness of the installed material plus temperature and humidity condition all play a factor in the time required for the drying of the material. No traffic can be put on the material in the first 24 hours after installation and generally 2 to 5 days are required for variable conditions previously stated.

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