



STRUCTURE COAT

High Performance Concrete Bonding Coat

DESCRIPTION

Structure Coat is a pre blended, all in one, high strength cementitious concrete mix designed for use as a build coat and scratch coat on surfaces that will be treated with a carveable finish coat such as Tru Pac X or V. Structure Coat contains a proprietary resin designed to offer extreme adhesion to EPS foams combined with superb flexural strength and shrink resistance, especially beneficial in foam applications. The properties of structure coat allow it also to be a superb concrete patching and repair mix.

FEATURES AND BENEFITS

- Can be applied by trowel or appropriate spray device.
- **Does not require the use of a primer.**
- Tri component reactive fiber system for improved tensile strength.
- Quick set and cure time to allow for faster project turn around.
- Excellent as a patching compound for concrete repair.

TYPICAL APPLICATIONS

Walttools Structure Coat is typically used as a scratch coat before the application of a carving mix such as Tru Pac V or Tru Pac X. When used on EPS foam it creates a very durable, weather resistant shell for the carve coat to adhere to. When sprayed on a vertical surface the natural spray pattern creates a perfect mechanical surface for a heavy carving application. The “foam coat” helps to immobilize the subsurface for reduction of stress cracks.

TECH SPECIFICATIONS

Specifications listed for product used at 70 degrees and no adverse conditions.

Initial set.....1 hrs

Final set.....5 hrs

Set times can vary based on temp, humidity and other environmental factors

Coverage per 50 lb bag.....10 sqft @ 1/2", 20 sf @ 1/4"

Yield per 50 lb bag..... .42 cu ft

Compressive strength.....3000 psi at 24 hrs

.....7000 psi at 7 days

Flexural strength.....566 ultimate

INSTRUCTIONS

MIXING:

Add 1 gallon of water per bag to the bottom of a large mixing pail and begin to add in the Structure Coat. Continue to mix and if needed, add up to 5 quarts of water to reach desired consistency. The resulting mix should be of a moderately loose mix for application by hand. A wetter mix (semi-flowable) is required for use in a spray application due to inherent water loss in the process and to go thru sprayer.

INSTRUCTIONS

APPLICATION: If using a sprayer, you will need a compressor with the minimum specs of 7-10 cfm @100 psi. The Structure Coat mix should be semi-flowable and applied to the surface in a bottom to top motion. The nature of the material as it is sprayed will provide a perfect scratch coat surface for vertical concrete applications. If mixing by hand, you should use a large (15 gal) mixing pail and a heavy duty ½” drill mixer. The preferred mixing head is that of the egg beater style. Mixing splines should be cleaned off between batches to avoid heavy buildup. Large batches can be mixed in a mortar style mixer, again making sure to clean off the mixing ribbons as much as possible between batches. If applied by hand, once on the surface and initial stiffening has occurred, the surface should be properly scarified to the appropriate degree based on the thickness of the finish coat.

NOTE OF CAUTION. The proprietary fibers used in Structure Coat may become visible on the surface. The fibers are to be left alone as they are part of the binding process with the carve coat to be applied. If the material is being used as a patching material, fibers can be eliminated through use of a torch or similar apparatus for burning them off.

CAUTIONS Do not mix more material than can be placed in 20-30 minutes. The temperature of the mixed material should be between 60°F to 80°F for ideal working properties. Use only potable water for mixing. Clean mixing equipment between batches. Do not apply to overly cold or hot surfaces. Colder temperatures will extend open time and reduce rate of strength gain.

WARNINGS: Contains cement and silica, avoid inhalation of dust. Wear gloves, safety goggles, and OSHA approved dust respirator during mixing and placement. Refer to product M.S.D.S. (Material Safety Data Sheet) for additional safety information. Do not take internally. Avoid prolonged contact with skin. **FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN**

LIMITED WARRANTY: This product is warranted to be of merchantable quality when used according to the instruction herein. It is not warranted to be suitable for any purpose or use other than the general purpose for which it is intended. Liability under this warranty is limited to the replacement of the product as purchased, if found to be defective upon inspection by the manufacturer. This limited warranty is issued and accepted in lieu of all other expressed warranties and explicitly excludes liability for consequential damages. Buyer assumes all risk and liability resulting from the use of this product. Revised – 08-14