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ABOCAST/ABOCURE 8007-2

TDS 861202

A B O C A S T / A B O C U R E 8 0 0 7 - 2

HIGH-GRADE POLYSULFIDE-EPOXY FLEXIBLE MEMBRANE SEALANT AND JOINT-FILLER

ABOCAST/ABOCURE 8007-2

2-part polysulfide-epoxy solventless system. Weather- and water-proof, flexible, acid, alkali and fuel resistant. Meeting construction requirements as specified by architects (e.g. Wiss, Janney, Elstner, Chicago).

DIRECTIONS, (excerpts of instructions by architects Wiss, Janney, Elstner, Chicago):

SURFACE PREPARATION:

***** Concrete surface shall be free of loose and unsound material, debris, oil, tar, grease, dirt and previous membrane sealants or paints. The surface of the concrete along the path of the crack in the floor system shall be scarified to an average depth of 1/4 inch.

USES

- Filling joints and cracks in exposed structures like bridges, docks, parking garages, flat roofs.
- Repairing cracks and joints between concrete and steel.
- Installing and sealing bulkheads, windows and other framed openings in ships and buildings.
- Maintenance of tanks, pipes and structures.
- Repairs in sewage, drainage basins and pipes.
- Metal and concrete structures.

INSTALLATION/APPLICATION:

The prepared concrete surface shall be primed with the formulated mix consisting of 15-30% solution of the 1/1 ABOCAST/ABOCURE blend in the ABOSOLV solvent.

***** Allow a minimum of 1 hour set time to permit complete evaporation of the solvent in the primer material.

CHARACTERISTICS

ABOCAST 8007-2: Gray thixotropic resin.
ABOCURE 8007-2: Tan thixotropic converter.

Completely fill the scarified area of the deck containing the crack with the 8007-2 membrane coating sealer mixed 1/1 by volume.

SOLIDS: 100%.
LBS/GALLON: ABOCAST: 13 (5.9 Kg);
Part B: 9.6 (4.3 Kg).

Broadcast dry sand onto the 8007-2 surface before it hardens, to improve the skid resistance. Allow the membrane to cure completely before permitting traffic to cross the membrane.

RATIOS: equal volumes ABOCAST/ABOCURE.
VISCOSITY: thixotropic.
POT LIFE: 30 minutes.
INDUCTION PERIOD: <5 min.

An estimated 8 to 24 hours is required for curing at room temperature.

The ambient temperature should be above 60°F when the membrane material is applied.

APPLICATION: trowel, roll or brush.
HARDENING TIME: 1-8 hrs at ambient temp.

CLEAN-UP:

Immediately remove any membrane material applied or spilled outside of the work area. At the completion of the work, all scraps and materials removed to make repairs shall be transported from the site.

CURED HARDNESS: <65 Shore D.
ELONGATION: 40%
TENSILE STRENGTH: 1900 psi

PERSONNEL SAFETY:

Avoid skin contact with epoxy materials, solvents and epoxy strippers. Epoxy resins and particularly epoxy hardeners may cause skin sensitization.

Wear rubber gloves (preferably with a cloth liner) and protective clothing.

Where splashing may occur, wear goggles and face shields.

Barrier creams are recommended but do not substitute for protective clothing.

If skin contact occurs, wash immediately with a waterless cleaner, followed by soap and water. Should eye contact occur, flush immediately with plenty of water for 15 minutes and call a physician.

NOTES:

SURFACE PREPARATION is critical also with new concrete, where the laitance (sound-looking, but very weak top surface layer) must be removed by sandblasting, scarification or muriatic acid etching.

MIXING ABOCAST with **ABOCURE** must be thorough and complete, or poor, spotty and insufficient hardening will occur.

Whenever **THINNING** is desirable for spraying or brushing of thin layers (no more than 3-5 mils each), **ABOSOLV 8006-3S** is used for spraying, or **ABOSOLV 8006-3B** for brushing or paint-roller application.

POT LIFE and HARDENING. POT-LIFE is the time the ABOCAST/ABOCURE blend remains liquid and workable, before hardening, in the mixing container.

As the hardening reaction generates heat, and heat accelerates the reaction (as in a chain-reaction), the larger the mass mixed, the shorter the pot life, because the bulk retains more heat to accelerate the hardening process.

Therefore, thin layers may take ten times as long as the pot life (measured in 100-200 gms quantities in a cylindrical mass approximately as wide as tall), and large thick masses may harden faster than the pot life.

Externally applied heat (from infrared heaters or

any heat source) can accelerate the hardening from hours to minutes.

Cold temperatures retard hardening. However, the 8007-2 system can be used at temperatures as low as 45-50°F. The architect's suggestion (see above) to consider 60° as the lowest temperature can be considered valid insofar as warmer surfaces offer better adhesion than colder ones.

GENERAL CONSIDERATIONS

The 8007-2 system is a compromise between a rigid patching material and a flexible sealant with high elongation, for cases where the first would crack because of its rigidity and the second would offer poor tensile strength, adhesion and wear resistance because of softness.

Its most successful use is in repairs of floors, walls and ceilings in exposed decks typical of multilevel parking garages, helicopter landing platforms, flat roofs, gasoline service stations, loading docks, wharfs, piers, multilevel warehouses.

In the afore mentioned cases, cracks develop from settling, shrinkage or one-time motion at the joints. In other instances, separation may occur between concrete slabs and steel beams or other structural elements.

These conditions require more strength and higher structural adhesion than offered by sealants.

The 8007-2 system is also ideal where concrete is to be cast onto old concrete or steel and form a permanent bond that offers sufficient strength as well as a modest degree of flexibility that is sufficient to resist thermal expansion differences and other slight relative motions.

The 8007-2 system also offers the ability to harden on wet surfaces and under water.

In many cases, it can be used as a versatile binder to mix with aggregates or sand that can be used to patch and bond to surfaces where concrete aggregates could not bond.

The above information is the result of accurate laboratory and field tests. However, no guarantee, expressed or implied, is offered, as uses and applications are beyond our control.