TECHNICAL DATA SHEET

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EMBE® CEMTEX

Acrylic Polymer

Description

EMBE® CEMTEX acrylic-polymer bonding additive replaces all part of the mixing water in Portland cement based mixes to give the mix better strength and improved adhesive bond. It can be used on clean, sound, concrete and clean, sealed wooden surfaces.

Typical Uses

- Repairing cracked, chipped broken concrete.
- Leveling concrete
- Toppings
- Underlayments
- Filling honeycombs in new concrete
- Truckpointing mortar

Advantages

- Improve tensile, flexural and compressive strengths
- Improves bond strength
- Can be used in continuously wet areas, above or below grade
- Excellent resistance to thermal shock

Limitations

- Limited workability on walls and soffits. Consult TBS for alternate materials

Surface Preparations

- Surface and air temperature must be at least 40°F (5°C) during installation and cure
- Mortar will not bridge moving cracks in substrate.
- Concrete substrates should have laitance moved, preferably by shot blast method. For inaccessible areas, consult manufacturer and/or certified contractor for alternate methods of preparation.

Mixing

Use an approved packaged dry mix or thoroughly mix dry, clean aggregate or silica sand and cement. Dry mix the cement and the aggregate to avoid over mixing the EMBE Cemtex® solution. Do not use expansive or air entrained Portland cement. Before mixing EMBE Cemtex® with the dry mix, dilute as outlined in following chart:

Thickness	**Mixture/Water Cemtex®**
More than 1”(25 mm)	3:1
From 1”to ½” (25mm to 13mm)	2:1
Less than ½”	

Add EMBE Cemtex® water mixture to a dry mix of about 3 parts sand to 1 part cement until the desired trowling consistency had been obtained.

In a thinner section, where featheredging is required, use a finer sand. In thicker sections, (1/2” or more), add pea gravel as in normal concrete practices.

Application: Prime area with Cemtex® or Monobond. Allow the Monobond to become tacky (normally ½ hour). Trowel mix into place.

Finishing: Use a wood or magmesium float. A light steel troweling provide a smoother finish. Over trowling will float the EMBE Cemtex® to the surface, possibly causing loss of adhesion of any overlay.

Curing: Under hot windy conditions, fog the underlayment with water for the 24 hours or cover with a plastic sheet.

Physical Properties

Compressive strength	3000-6000 psi 20.68-41.37MPa
Tensile strength	500-700 psi 3.45-4.83 MPa
Specific gravity	1.04
Flexural strength	900-2000 psi 6.21-13.79 MPa
Bond Strength	300-400 psi 2.068-2.76MPa
Solids content	42%
Viscosity	25 cps +/- 5 cps
Water Absorption	3.5 % to 4.0 %
Water Immersion	no effect (1 month)
Smoke Contribution Factor	None (0)
Flame Contribution Factor	None (0)

Safety Precautions

Please refer to MSDS Sheet