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TOP-N-BOND CEMENT TECHNICAL DATA SHEET

A Self Bonding Cement Mix

DESCRIPTION

A one-part, self bonding, cement base patching mate-rial specifically formulated for thin-section repairs to existing surfaces. When used as directed, it has supe-rior bonding power to regular sand and cement boxes and adheres securely to concrete, masonry and stuc-co. The material requires only the addition of clean water. Exhibits the colour of concrete, and may be used on interior and exterior installations. Edges feath-er easily, does not shrink and Top-N- Bond develops exceptional strength. Final set is obtained in 4-5 hours, depending on relative surface and air temperature.

USES

Top-N-Bond is recommended for repairing steps, leveling slabs, patching small holes, and smoothing rough, worn or spalled concrete surfaces. Application may be by either trowl-on or brush-on methods. Be-cause of its bonding strength, Top n Bond may be used as a mortar for repairing old masonry and setting units of stone, marble and brick.

PREPARATION

Surface of working area must be clean and free from all deleterious material. Remove oil, grease, wax, silicones, paints, efflorescence or other materials which interfere with the bond and chemical action of the material. Slick or sealed surfaces must be thoroughly roughened.

Structural cracks should be widened with hammer and chisel to an inverted “V” shape and filled with a sand and cement mixture. Allow repair to cure for 24 hours prior to resurfacing area with TOP-N-BOND.

Treating surface with a commercial grade, diluted muriatic acid may be helpful in removing embedded coatings such as paint, sealers and hardeners. It is suggested that a test patch be made on a small section to determine if a good bond is obtainable.

MIXING

Use clean tools and water, free of impurities. Gradual-ly stir in water until a thick, workable mixture is ob-tained. A 40 lb bag requires approximately 3 quarts of water and a 10 lb tub. 1 ½ pints. Mix with a trowel, scoop, hoe or mechanical mixer, making sure that all pockets of dry material are blended into the wetted mass. After mixing, allow the wetting material to stand 10 minutes before using. For a brush or broom coat appli-cation, add additional water as required to a “thick paint” consistency. Too much water will cause aggre-gate in mix to settle.

APPLICATION

General Repair: Place patch material on surface to be coated. With a steel trowel, use enough pressure to force the mix into the original concrete. Trowel over the patched area and finish smooth. If surface is to receive a brush coat, precoat the area to be repaired. TOP-N-BOND may be applied to temperatures as low as 50^0F; best results are obtained at temperatures around 70^0F. During cold weather, store at room tem-perature for a 24 hour period prior to use. On exces-sively hot days, use material only if protected from direct heat of sun.

Brush-Coat Resurfacing: Dampen surface by satu-rating with water to prevent concrete base from ab-sorbing water in material mix. Use wide, soft-bristle push broom to spread the TOP-N- BOND concrete re-surfacer. Wet broom with water prior to starting. Spread the material as thin as practical and then “finish” by brushing the surface in only one direction, so that brush marks will show uniformly. Because of high water retention properties, no special curing is required under normal conditions. When application is more than ½ inch thick or when exposed to direct heat of the sun, cover or shade patched area for 24 hours. Do not re-wet surface. Under normal conditions, re-paired surfaces can be used for light traffic after 24 hours or heavy traffic, after 48 hours.

TECHNICAL DATA

Design strengths, PSI (based on a mortar consistency)

COMPRESSIVE STRENGTH (ASTM C-109)

2 days	3 days	7 days	28 days
2000	3500	4500	5500

TENSILE STRENGTH

2 days	3 days	7 days	28 days
-	-	600	690

BOND STRENGTH \(shear Bond)

2 days	3 days	7 days	
-	-	400	500

COVERAGE

General Repair – 40 lbs, covers approximately 18 square feet, ¼ inch thick.

Brush Coat Resurfacing – 40 lbs will cover up to 80 square feet, with variance due to surface texture and porosity.

Packaging - 10 lb container, 40 lb triple-walled bag