KAUFMAN

PRODUCT
INFORMATION

KAUFMAN PRODUCTS INC. 3811 CURTIS AVENUE BALTIMORE, MARYLAND 21226-1131 410-354-8600 800-637-6372 www.kaufmanproducts.net

PATCHWELL Deep

Description

Patchwell Deep is a high quality, polymer modified mortar specifically designed for repairs to concrete where the depth of repair is between ¼" and 2 inches without the need for the addition of pea gravel. Patchwell Deep consists of special cements and non-shrink additives that allow it to be used at greater thicknesses than most patching materials without shrinkage. For greater thicknesses the addition of pea gravel is recommended.

This product is self-curing, freeze-thaw resistant and provides better adhesion than standard mortars. The coefficient of thermal expansion is similar to that of normal concrete, ensuring thermal compatibility. Patchwell Deep contains a migrating corrosion inhibiting agent to protect embedded steel reinforcement from chloride and carbon dioxide penetration.

Uses

Recommended for structural repairs to both interior, exterior, above, below or on grade applications. Both small and large areas may be resurfaced. Excellent for use in both "form & pour" vertical applications as well as horizontal ones.

Typical Properties

Compressive Strength, psi.	
ASTM C-109	3,000 psi. @1 day
	7,000 psi. @7 days
	8,500 PSI @ 28 days
Flexural Strength, psi.	
ASTM C-348	1,500 psi. @7 days
Slant Shear Bond Strength	
ASTM C-882 Mod. psi.	3,100 psi
Tensile Strength, psi.	
ASTM C-496	750 psi.
Coefficient of thermal	
Expansion, per 0℃	$7.3x10^{-6}$

Packaging/Yield

50 lb. bag

Yields .5 ft^3
12.5 ft^2 @ ½" thickness

Directions

Surface Preparation

Remove all foreign matter including any curing compounds and form release agents. Remove all unsound concrete. Acid etching with 1:1 muriatic acid: water solution, water or sand blasting is needed to bond to smooth troweled concrete. Rinse thoroughly with copious amounts of clean water under pressure to remove all acid and loose laitance.

If not using a latex or epoxy primer, dampen substrate thoroughly for ½ hour prior to placement of Patchwell Deep. This will control the temperature and the suction rate of the substrate. Never apply over puddles of freestanding water.

For best results, the use of Sure-Weld or SureBond later adhesives or even better, use SurePoxy HM. Consult with the factory for assistance in achieving the best bond. Embedded steel should be cleaned of corrosion and exposed to 100% of the circumference. Once cleaned, and prior to application, the exposed metal should be coated with SurePoxy EPL. Use within 40 minutes.

Mixing

Patchwell Deep only requires the addition of water for mixing. The correct mixing ratio is 3.1 qts. of water to each 50 pound bag of Patchwell Deep. Add the water to the mixing container first and then add the powder. Mix with a jiffy mixer attached to a ½" drill for a 5 gallon can size or use a mortar mixer for larger sizes. Continue mixing until the material is free of lumps (approximately 2-3 minutes)

Mix material as close as possible to the area to be repaired. Do not allow mixed material to build up on mixing materials. Do not re-temper or use admixtures.

Application

Apply mixed Patchwell Deep over the properly prepared surface, working the material firmly into the sides and bottom, eliminating any air pockets and assuring maximum bond. Where practical, work from one side to the other. Working time is approximately 35-40 minutes.

When desired thickness is achieved, finish smooth with wood float and then trowel. A broom finish can be achieved, if desired. For applications 2" to 4" deep, add up to 35% 3/8" to ½" pea gravel.

Precautions

Minimum application thickness is ¼". Minimum ambient and substrate temperature is 45^{0}F and rising at time of application. Control and expansion joints must be taken into consideration and followed to the new surface. Do not use curing compounds. Never use limestone aggregates with this product. We recommend pretesting with the pea gravel, if needed. Read Material Safety Data before using.