

K A U F M A N

PRODUCT
INFORMATION

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HiCap Plus

Description

HiCap Plus is a line of quick setting, cementitious patching and finishing compounds. They are composed of special portland cements, graded and washed silica aggregates, unique accelerating additives, workability agents and water reducing agents. In addition, these products all contain both a powdered latex admixture for increased adhesion and strength as well as our migrating corrosion inhibiting agent to protect exposed wire strand, rebar, threaded rod and other such materials.

HiCap Plus, is available in three different set times of approximately 5, 15, and 30 minutes. They allow you to combat the winter and summer temperature extremes. All three products can be featheredged or shaved to desired shape, after achieving an initial set.

Due to the need for repair materials to blend in with the existing concrete structure, we offer all three set times of HiCap Plus in light, medium, and dark gray color. In addition, we also offer a special version for deep applications of 2" or more as well as an underwater version.

Uses

HiCap Plus, combined with water is an excellent choice to repair or finish broken, chipped and spalled areas of concrete. HiCap is ideal for use in repairing precast or prestressed concrete. Whether it is a bridge beam, box culvert, concrete pipe, or lawn ornaments, HiCap's carvability will help you to produce a quality repair.

Variations

HiCap Plus 5	Light, Medium, Dark Gray
HiCap Plus 15	Light, Medium, Dark Gray
HiCap Plus 30	Light, Medium, Dark Gray
HiCap Plus 5 Deep	For deeper patches
HiCap Plus 15 Deep	For deeper patches

Packaging/Yield

50 pound pail	.45 ft ³
50 pound bag	.45 ft ³
500 pound drum	4.5 ft ³

Physical Properties - 75°F

Initial Set	
HiCap Plus 5	~5 minutes
HiCap Plus 15	~15 minutes
HiCap Plus 30	~30 minutes
Compressive Strength	
(ASTM C-109)	6 hrs 460 psi.
	1 day 3,600 psi.
	7 days 4,700 psi.
	28 days 6,000 psi.
Flexural Strength	
(ASTM C-348)	@ 28 days 930 psi.
Shear Bond Strength	
(ASTM C-1042)	exceeds 275 psi.
Percent Length Change	
in Air (ASTM C-928)	@ 7 days -0.047%
	@ 28 days -0.104%

Directions

Surface Preparation

Surfaces must be structurally sound, clean, and free of loose or deteriorated concrete, rust, marine growth, oily materials and all contaminants. Undercut all edges of the area to a minimum depth of 3/4". Clean exposed steel and reinforcing. Roughen the surfaces to which HiCap Plus is intended to bond for good mechanical adhesion. Pre wet the prepared area with potable water for approximately 15 minutes immediately before application of HiCap Plus. All surfaces to be repaired should be in a saturated surface dry (SSD) condition without standing water on the surface.

Application

Mix 50 lbs. of HiCap Plus with 4.3/4 - 5 qts. of potable water. Thoroughly mix until uniformly blended but no more than 60 seconds. The use of a low RPM (1/2" drill) and a mud paddle is recommended. Do not retemper or add sand to this mix.

Scrub HiCap Plus intimately into the pores of the roughened surfaces with a gloved hand, then pack the rest of the area with the mixed material immediately. For best adhesion, prime non-polymer-modified types with SureBond, SureWeld, or the proper SurePoxy Bonding Agent. Apply by trowel and slightly overfill the patch and allow to set for a short time. Shave to the desired shape or finish before HiCap Plus gets too hard. Always shave toward the common bonding

edge between the HiCap Plus and surrounding area.

After finishing, HiCap Plus can be rubbed with a wet sponge and textured if desired. Adequate curing is essential. Consider using SureCure 25 or Sureal if non-yellowing is important.

For applications 2" deep or more, we recommend HiCap Plus Deep. Alternatively, you could add 25 lbs. of clean, dry 3/8" pea gravel to the 50 lb. bag.

Cold Weather Placement

HiCap Plus will set faster than the mixing water will freeze. When the temperature is below 35° F, do not prewet the area to be patched. Use heat to eliminate frost from the substrate but do not heat the surface to above 70° F. Use warm water for mixing to help shorten the setting time. The use of Excell NC would be beneficial in speeding the setting of HiCap Plus. Do not apply heat to the patch after it has been installed.

Notes

Never retemper. Application should always be finished by the time of initial set or stiffening. This product is not recommended for resurfacing or topping floor areas. Read Material Safety Data before using. Consider using PipeWipe whenever an extremely fine material is needed to paint or fill tiny imperfections.

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