

K A U F M A N

PRODUCT
INFORMATION

KAUFMAN
PRODUCTS
INC.

3811 CURTIS
AVENUE

BALTIMORE,
MARYLAND
21226-1131

410-354-8600
800-637-6372
www.kaufman
products.net

SurePlug Regular Set Slow Set Fast Set

Description

SurePlug is a fast setting, non-shrinking, hydraulic cement compound, formulated to stop leaks in all types of concrete or masonry surfaces; and is particularly designed to instantly stop the flow of running water. SurePlug requires the addition of only water before plugging and sealing cracks. Available in three set times of 30 seconds (Fast Set), 1 minute (Regular Set) and 3 minutes (Slow Set).

Uses

SurePlug is used to plug all cracks and openings in concrete, masonry walls, dams, manholes, wells, tanks and stops water seepage at the junction of walls and floors. It is effective even under hydrostatic pressure. It is also used for anchoring bolts, hand railings, repairing cracks in concrete floors, and utility structures.

Physical Properties @ 75°F

Color	Concrete Gray		
Compressive Strength ASTM C- 109	1 hour	800 psi	
	1 day	3000 psi	
	7 days	3500 psi	
	28 days	4700 psi	
Tensile Strength (ASTM C-496)	7 days	575 psi	
	28 days	675 psi	
Gillmore Needle Set Time			
Slow	3-5 minutes		
Regular	40-60 seconds		
Fast	20-30 seconds		

Packaging/Yield

50# plastic pail - .45 ft³ (778 in³)
15# plastic pail - .135 ft³ (260 in³)
10# plastic pail - .09 ft³ (157 in³)

Directions

Surface Preparation

All cracks or openings should be carefully prepared by cleaning out foreign matter, and cutting out loose materials. Also the crack must be opened to a minimum width of 1" at the surface. Wherever possible, square out the crack to the extent of making it larger at the base. Cracks should not be left in a sharp V form, particularly where water under hydrostatic pressure is to be dammed off.

If possible, chip the crack into the form of an inverted V Mix SurePlug with clean water to the consistency of putty, using only enough SurePlug that can be placed in 15 seconds. Mixing time should not take more than 1/2 minute.

After filling a crack or hole, the plug should be kept damp to assure complete hydration of the cement. Never re-temper or re-mix SurePlug. If areas to be patched are holding water under pressure, weep holes should be made at the base of the wall to relieve the pressure. In extremely warm weather use ice water to retard and slow down the set of SurePlug. In cold weather of less than 40°F, we recommend that all surfaces to be plugged, as well as the SurePlug, should be warmed to approximately 70°F, to achieve a more normal setting rate and for best results.

Mixing

Gradually add SurePlug to clean water and mix with a small trowel. Mix material to consistency of putty with no slump. Force material into the crack or hole using maximum pressure and hold until set occurs. When repair areas are under high water pressure, start at the top of the area and work down. Hold SurePlug in your hand until heat is felt and then force material into crack or void.

Applications

Cracks At Floor And Wall Junctions - Widen and clean cracks to at least 3/4" in width and depth. Force the SurePlug into the prepared crack with a round tool and smooth out. Prepare a cove at the junction.

Streams Of Running Water - Prepare all cracks properly and, if possible, relieve excess hydrostatic pressure by drilling a relief hole or by chiseling out the crack at its very lowest point. After mixing, immediately place the SurePlug and force into the hole or crack that is to be sealed. Start filling cracks or holes at the top to close the final opening and to seal off a stream of water.

At that moment force it into the hole and exert pressure either with your hand or trowel for a full 5 minutes or longer. In some cases, where the water is extremely cool, it may be necessary to hold the plug in place for a little longer.

Cement Plaster - When treating seeping walls remove all foreign materials such as white wash, loose particles of concrete or block, oils and paint. Add an equal quantity of standard portland cement and fine mason sand to SurePlug. Use cool mixing water to make a slurry of the cement, sand and SurePlug. Apply the heavy slurry to the seeping wall, where it will set up and stop water seepage in 10 minutes time.

Bolt Anchoring - Use a star drill to make a hole 1 inch to 1 1/2" larger in diameter than the anchor bolt. Mix SurePlug with water, and quickly pour and tamp it into place around the anchor bolt.

Precautions

SurePlug contains portland cement. SurePlug becomes alkaline on contact with water. Care should be exercised to prevent splashing on sensitive skin. This product is intended for industrial use only. Read Safety Data before using.