

K A U F M A N

PRODUCT
INFORMATION

KAUFMAN
PRODUCTS
INC.

3811 CURTIS
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SurePlug FR

Regular Set
Slow Set
Fast Set

Description

SurePlug FR 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 FR 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 FR 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.

Packaging/Yield

10 lb. plastic pail
15 lb. plastic pail
50 lb. plastic pail

Physical Properties @ 75°F

Color	Concrete Gray
Compressive Strength	6 hours 400 psi
ASTM C- 109	1 day 2,000 psi
	7 days 3,500 psi
	28 days 6,000 psi
Flexural Strength	28 days 1,200 psi
(ASTM C-78)	
Tensile Strength	28 days 800 psi
(ASTM C-496)	
Gillmore Needle Set Time	
Slow	3-5 minutes
Regular	40-60 seconds
Fast	20-30 seconds

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 FR with clean water to the consistency of putty, using only enough SurePlug FR 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 FR. 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 FR. In cold weather of less than 40°F. we recommend that all surfaces to be plugged, as well as the SurePlug FR, should be warmed to approximately 70°F, to achieve a more normal setting rate and for best results.

Mixing

Gradually add SurePlug FR 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 FR in your hand until heat is felt and then force material into crack or void. Do not ever add plasticizers, accelerators, retarders, or any other ingredients besides potable water unless advised by Kaufman Products in writing.

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Applications

Cracks At Floor And Wall Junctions – Widen and clean cracks to at least $\frac{3}{4}$ " in width and depth. Force the SurePlug FR 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 FR 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.

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 FR with water, and quickly pour and tamp it into place around the anchor bolt.

Precautions

SurePlug FR contains portland cement. SurePlug FR 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 complete Safety Data Sheet before using.*

Technical Information

Test results were achieved under laboratory conditions. Statistical variations will occur based upon mixing methods, temperature & humidity, test methodology, site conditions, curing conditions, application methods, and equipment.

For professional use only. Not for sale to or use by the general public.

LIMITED WARRANTY We warrant our products to be of good quality and will replace material proved defective. Satisfactory results depend not only upon quality products, but also upon many factors beyond our control. Therefore, except for such replacement, Kaufman Products, Inc makes no warranty or guarantee, expressed or implied, including warranties of fitness or merchantability, respecting its products, and Kaufman Products, Inc shall have no other liability with respect hereto. User shall determine the suitability of the product or the intended use and assume all risks and liability in connection thereto. Our salespeople, distributors and their salespeople have no authority to change the printed recommendations concerning the use of our products.