

SPEED PLUG®

QUICK SETTING HYDRAULIC CEMENT

DESCRIPTION

SPEED PLUG is a quick setting hydraulic cement compound used to instantly stop running water or seepage leaks in masonry or concrete. SPEED PLUG is ready to use and requires only the addition of water before plugging and sealing cracks.

PRIMARY APPLICATIONS

Used above or below grade, interior or exterior to stop seepage and flowing water on:

- Concrete and masonry walls and floors
- Dams, swimming pools, cisterns, reservoirs, water tanks and manhole repairs

FEATURES/BENEFITS

- Non-shrinking, non-metallic and non-corrosive
- Initial set in 1 to 3 minutes
- Stops running water or seepage leaks
- High strength
- Controlled expansion
- Can be applied underwater

TECHNICAL INFORMATION

Material Properties at 75°F (24°C)

Test Method

Compressive Strength ASTM C 109 psi (MPa)

1 hour	1,835 (12.6)
1 day	3,125 (21.5)
7 days	7,808 (53.8)
28 days	9,543 (65.8)

Flexural Strength ASTM C 78

1 day	410 (2.8)
3 days	855 (5.9)
28 days	1245 (8.5)

Tensile Strength ASTM C 190

1 day	510 (3.5)
3 days	745 (3.5)
28 days	855 (5.1)

Expansion/Shrinkage ASTM C 157

28 Day Test Chg. Length		
Moist Room	100% RH	0.081%
Dry Room	50% RH	-0.136%

Appearance: SPEED PLUG is a gray hydraulic cement compound.

Values presented are typical and not necessarily referenced to create specifications.

PACKAGING

SPEED PLUG is packaged in 4/10 lb (4.5 kg) tubs/case; 20 lb (9.2 kg) and 50 lb (22.7 kg) pails.

SHELF LIFE

1 year in original, unopened package.

COVERAGE/YIELD

1 lb (0.45 kg) of SPEED PLUG yields approximately 17 in³ (171 cm³) and will repair approximately 30 in. of 3/4 x 3/4 inch crack. (Approx. 1 kg for 155 cm of 2 cm x 2 cm crack.)

DIRECTIONS FOR USE

Surface Preparation: Concrete surfaces must be structurally sound, free of loose or deteriorated concrete and free of dust, dirt, paint, efflorescence, oil and all other contaminants. Mechanically abrade the surface to a minimum depth of 1/8" (3 mm) to achieve a surface profile equal to CSP >3 in accordance with ICRI Guideline 03732. Properly clean profiled area.

Priming: Clean and prime exposed steel with DURALPREP AC.



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Mixing: Pour potable water into a clean mixing container and gradually add SPEED PLUG. Use approximately 1 quart of water to 8 to 9 pounds of material (3.8 to 4.3 kg/L). Mix rapidly with a trowel to the consistency of stiff putty with no slump. Mix no more than 30 seconds. SPEED PLUG will flash set in 1 to 3 minutes. Properly mixed, SPEED PLUG can be hand formed into a ball.

Application: Dampen areas for repair with potable water immediately before application of SPEED PLUG.

General Patching: Force SPEED PLUG into the crack or hole by hand or with a trowel. Rapidly fill to the full depth of the opening. **Patching Active Leaks:** Start at the top of the crack or hole, and force the SPEED PLUG to the full depth of the prepared area. Apply direct pressure to the new patch until the SPEED PLUG has taken a firm set. Mix fresh material, and continue patching toward the area of the greatest pressure. When extreme water pressure is encountered, hold the mixed SPEED PLUG in the hand until it becomes warm. Then rapidly force the patch into the hole, and apply continuous pressure until the SPEED PLUG has set, and the water has stopped running. Do not use a twisting motion. **Floor-Wall Patching:** Follow above methods for the specific conditions encountered. Use a rounded tool to force the SPEED PLUG into the joint, and construct a 45 degree transitional cove between the floor and wall at the same time. **Expansion/Contraction Cracks:** Use SPEED PLUG to stop running water leaks, but do not fill cracks completely to the surface. Allow approximately 1/2" (1.3 cm) depth, and fill with a flexible joint sealant.

CLEAN-UP

Clean tools and mixing equipment with water immediately after use.

PRECAUTIONS/LIMITATIONS

- Do not retemper SPEED PLUG. Do not apply SPEED PLUG to frozen or frost filled surfaces.
- Do not twist SPEED PLUG into the hole while plugging running water leaks.
- In warm weather, mix SPEED PLUG with ice water. In cold weather, mix SPEED PLUG with warm water and use a torch to preheat the area to be patched.
- Do not prewet in cold weather.
- Do not apply in dynamic (moving) cracks or to fill expansion joints.
- In all cases, consult the Material Safety Data Sheet before use.

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