SPEED PLUG

RAPID-SETTING HYDRAULIC CEMENT

EUCLID CHEMICAL

PACKAGING

50 lb (22.7 kg) pail
   Code: TR5113750
20 lb (9.1 kg) pail
   Code: TR5113720
Case of 10 lb (4.5 kg) tubs (4 per case)
   Code: TR5113010

CLEAN UP

Clean tools and equipment with water before the material hardens.

SHELF LIFE

18 months in original, unopened package

DESCRIPTION

SPEED PLUG is a rapid-setting hydraulic cement compound used to instantly stop running water or seepage in masonry or concrete. SPEED PLUG is ready to use and requires only the addition of water before plugging and sealing active leaks. SPEED PLUG is available in a standard 1-3 minute set time formula, as well as a faster setting 45 second version and a slower setting 3-5 minute formulation.

PRODUCT CHARACTERISTICS

FEATURES/BENEFITS

- Initial set in 1 to 3 minutes
- Stops running water or seepage leaks
- High strength
- Controlled expansion
- Can be applied underwater

PRIMARY APPLICATIONS

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

APPEARANCE

SPEED PLUG is a gray hydraulic cement compound.

TECHNICAL INFORMATION

The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.

Test Method	Test Property	Values
ASTM C109	Compressive Strength	1 hour . . . . . 1,000 psi (6.9 MPa) 1 day . . . . . 1,500 psi (10.3 MPa) 28 days . . . . . 3,000 psi (20.7 MPa)
ASTM C348	Flexural Strength	7 days . . . . . . 300 psi (2.1 MPa) 28 days . . . . . . 350 psi (2.4 MPa)
ASTM C157	Expansion/Shrinkage 28 day length change	Moist Room (100% RH) . . . . . . 0.10% Dry Room (50% RH) . . . . -0.25%

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 achieve a surface profile equal to CSP > 3 in accordance with ICRI Guideline 310.2. Properly clean profiled area.

Priming: Clean and prime exposed steel with DURALPREP A.C. and allow to fully dry prior to the application of SPEED PLUG.

Mixing: Pour potable water into a clean mixing container and gradually add SPEED PLUG. Use approximately 1 quart of water to 8 to 9 lbs (3.8 to 4.3 kg/L) of material. Mix rapidly with a trowel to the consistency of stiff putty with no slump for 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: SSD 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, physically hold the mixed SPEED PLUG with a hand against the leak 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° transitional cove between the floor and wall at the same time. **Expansion/Contraction Cracks:** Do not use SPEED PLUG to treat dynamic cracks. Consult the technical data sheets for the DURAL AQUA LINE of chemical/urethane grouts.

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 use in dynamic (moving) cracks or expansion joints. Use a chemical grout from the DURAL AQUA line.
- In all cases, consult the Safety Data Sheet before use.

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