



# SPEED PLUG

## RAPID-SETTING HYDRAULIC CEMENT

### 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.

### PRIMARY APPLICATIONS

- 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 C109 psi (MPa)

1 hour.....	1,000 (6.9)
1 day.....	1,500 (10.3)
28 days.....	3,000 (20.7)

#### Flexural Strength ASTM C348

7 days.....	300 (2.1)
28 days.....	350 (2.4)

#### Expansion/Shrinkage ASTM C157

28 Day Test Chg. Length	
Moist Room (100% RH).....	0.10%
Dry Room (50% RH).....	-0.25%

**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 20 lb (9.2 kg) pails, 50 lb (22.7 kg) pails, and in cases of 10 lb (4.5 kg) tubs (4 tubs per case).

### SHELF LIFE

18 months in original, unopened package

### COVERAGE/YIELD

1 lb (0.45 kg) of **SPEED PLUG** yields approximately 17 in<sup>3</sup> (171 cm<sup>3</sup>) and will repair approximately 30" of a 3/4" x 3/4" (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 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.

## 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 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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