



# Shep Damm-It

## Rapid-Setting Hydraulic Cement

### Description

Shep Damm-It is a rapid-setting hydraulic cement compound used to instantly stop running water or seepage in masonry or concrete. Shep Damm-It is ready to use and requires only the addition of water before plugging and sealing active leaks. Shep Damm-It 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 and 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 Data

Material Properties at 75°F (24°C)

Test Method

Compressive Strength ASTM C 109 psi (MPa)

1 hour.....1,000 (6.9)

1 day.....1,500 (10.3)

28 days.....3,000 (20.7)

Flexural Strength ASTM C 348

7 days.....300 (2.1)

28 days.....350 (2.4)

Expansion/Shrinkage ASTM C 157

28 Day Test Chg. Length

Moist Room (100% RH).....0.10%

Dry Room (50% RH).....-0.25%

Appearance: Shep Damm-It is a gray hydraulic cement compound.

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

### 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 DURAL-PREP AC and allow to fully dry prior to the application of Shep Damm-It.

**Mixing:** Pour potable water into a clean mixing container and gradually add Shep Damm-It. 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. Shep Damm-It will flash set in 1 to 3 minutes. Properly mixed, Shep Damm-It can be hand formed into a ball.

**Application:** SSSD areas for repair with potable water immediately before application of Shep Damm-It.

**General Patching:** Force Shep Damm-It 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 Shep Damm-It to the full depth of the prepared area. Apply direct pressure to the new patch until the Shep Damm-It 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 Shep Damm-It with a hand against the leak and apply continuous pressure until the Shep Damm-It has set, and the water has stopped running. Do not use a twisting motion.

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**Floor-Wall Patching:** Follow above methods for the specific conditions encountered. Use a rounded tool to force the Shep Damm-It into the joint, and construct a 45° transitional cove between the floor and wall at the same time.

**Expansion/Contraction Cracks:** Do not use Shep Damm-It 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.

### Coverage/ Yield

1 lb (0.45 kg) of Shep Damm-It 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.

### Packaging

Shep Damm-It 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.

### Precautions

- Do not retemper Shep Damm-It. Do not apply Shep Damm-It to frozen or frost filled surfaces.
- Do not twist Shep Damm-It into the hole while plugging running water leaks.
- In warm weather, mix Shep Damm-It with ice water. In cold weather, mix Shep Damm-It 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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