



THE EUCLID CHEMICAL COMPANY

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DAM-IT

NON-SHRINK FAST SETTING HYDRAULIC CEMENTITIOUS PRODUCT

DAM-IT is a fast setting, hydraulic cement product formulated to stop leaks in concrete and masonry surfaces. It is particularly effective for stopping the flow of running water. DAM-IT is ready to use and requires only the addition of water before plugging and sealing cracks.

PRIMARY APPLICATIONS

- Injection grouting

FEATURES/BENEFITS

- Plug wet cracks in rock, concrete and masonry surfaces to seal out water
- Stops running water
- Stops water seepage
- Expands as it sets for a water tight repair
- Will set up under water

PACKAGING/YIELD

DAM-IT is packaged in 60 lb (27 kg) pails, 4/12 lb (5.4 kg) pails per case, 4/12 lb (5.4 kg) bags per case and 12/3 lb (1.4 kg) bags per case.

60 lb (27 kg) pail yields 0.6 ft³ (0.02 m³)
 12 lb (5.4 kg) bag yields 208 in³ (0.003 m³)
 12 lb (5.4 kg) pail yields 208 in³ (0.003 m³)
 3 lb (1.4 kg) bag yields 52 in³ (0.001 m³)

Mix approximately 1 quart (950 ml) of water for each 12 lb (5.4 kg) unit.

Shelf Life: 1 year in original, unopened container.

COVERAGE

A 12 lb (5.4 kg) quantity of DAM-IT will cover approximately 34 in² (.022 m²) at a depth of 1/2" (12.7 mm).

TECHNICAL INFORMATION

Typical Engineering Data

The following results were developed under laboratory conditions.

Compressive Strength

ASTM C 109, 2" (50 mm) cubes

Age	Strength
1 hour	1,100 psi (8 MPa)
1 day	2,400 psi (17 MPa)
7 days	4,000 psi (28 MPa)
28 days	4,700 psi (32 MPa)

The standard formula DAM-IT typically has a reaction time of 3 to 5 minutes. A slower setting formula (12-15 minutes) is also available upon request.

DIRECTIONS FOR USE

Bonding-DAM-IT requires no special bonding procedures, just a clean sound surface.

Mixing-Quantities may be mixed by hand or with a drill and "jiffy" mixer. All materials should be in the proper temperature range of 60°F-90°F (16°C-32°C). Add the appropriate amount of water for the batch size and then add the dry product. Mix about one minute. The mixed product should be placed immediately.

Hand Placement:

Cracks-Widen out and clean cracks to at least 3/4" (19.1 mm) in width and depth. Force the DAM-IT plug into the prepared crack with a pointing trowel and slick off the surface. Prepare a cove at the junction. If more time is desired when preparing the cove, mix the DAM-IT with ice water.

Running Water-Dam up 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. Mix an adequate quantity of DAM-IT. After mixing, immediately place the plug of DAM-IT in your hand and hold it until it suddenly begins to get warm. This will take 2-3 minutes from the start of mixing. At this point, speed in working is essential. Force the DAM-IT plug into the hole or crack which is to be sealed off. Start filling cracks or holes at the top.

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To close the final opening and seal off a stream of water, make sure the DAM-IT plug is starting to warm up. At that moment force into the hole and exert pressure either with your hand or trowel for a full 5 minutes or longer to assure setting of the plug. In some cases where the water is extremely cool, it may be necessary to hold the plug in place for a little longer.

Injection-Mix only enough DAM-IT for 1.5 to 2 minutes of pumping. Pump grout until water flow stops and immediately flush pump and grout hose before continuing to the next hole.

PRECAUTIONS / LIMITATIONS

- Mass placement of DAM-IT [greater than 60 lb (27 kg)], may result in very rapid and unstable curing.
- Large area placements over 3" (76.2 mm) in depth should be avoided.
- The temperature of the patch should not be allowed to increase over 125°F (52°C).
- Use of cold mixing water or application of cold water to the repair surface is advised if large placements are expected.
- Store product in a dry place.

ADDITIONAL INFORMATION

For more information on the use of DAM-IT or any other Euclid Chemical product, contact The Euclid Chemical Company, Underground Sales and Marketing at 1-800-321-7628, extension 8395. The Euclid Chemical Company will assist mining operations in testing of materials to assess correct product usage for specific applications.

