



THE EUCLID CHEMICAL COMPANY

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DAM-IT®

◆ ◆ ◆ ◆ ◆ ◆ NON-SHRINK FAST SETTING HYDRAULIC CEMENTITIOUS PRODUCT

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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

- Basement repairs
- Manhole repairs
- Concrete pipe and bell repairs
- Anchoring bolts and hand rail setting

FEATURES / BENEFITS

- Plug wet cracks in concrete and masonry surfaces to seal out water
- Stops running water, reducing damage
- Stops water seepage at floor and wall junctions
- 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 ft^3 (0.02 m^3)
12 lb (5.4 kg) bag yields 208 in^3 (0.003 m^3)
12 lb (5.4 kg) pail yields 208 in^3 (0.003 m^3)
3 lb (1.4 kg) bag yields 52 in^3 (0.001 m^3)

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

COVERAGE

A 12 lb (5.4 kg) quantity of DAM-IT will cover approximately 34 in^2 (0.022 m^2) 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

<u>Age</u>	<u>Strength</u>
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.

Shelf life is 1 year in original, unopened package.

Appearance

DAM-IT is a free flowing powder as packaged. After mixing with water and placing, the color may initially appear much darker than the surrounding concrete. While this color will lighten up substantially as the concrete cures and dries out, the repair may always appear somewhat darker than the surrounding concrete.

The final troweled appearance can be any texture consistent with that expected from concrete and should be specified by the owner.

DIRECTIONS FOR USE

Surface Preparation-Concrete must be clean and rough. All oil, dirt, debris, paint and unsound concrete must be removed. The surface must be prepared mechanically using a scabber, bushhammer, shotblast or scarifier which will give a surface profile of a minimum 1/8" (3.2 mm) and expose the large aggregate of the concrete. The final step in cleaning should be the complete removal of all residue with a vacuum cleaner or pressure washing.

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.

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. 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.

Cement Plaster-When treating seeping walls, remove all foreign materials such as white wash, loose particles of concrete or block, oils or paint. Add an equal quantity of standard portland cement and fine mason sand to DAM-IT. Use cool mixing water to make a slurry of the cement, sand and DAM-IT. Apply the heavy slurry to the seeping wall where it will set up and stop water seepage in 10 minutes time.

Bolt and Hand Rail Anchoring-Use a star drill to make a hole approximately 1-1/2" (38 mm) larger than the anchor. Mix enough DAM-IT to fill the area and pour and tamp it into place around the anchor.

Finishing-Finish DAM-IT to the desired texture to match the surrounding concrete. Do not add additional water to the surface during the finishing operation. Use EUCOSEAL as a final waterproofing coating for additional protection against water seepage and to improve the appearance and uniformity of the repair area.

Curing & Sealing-DAM-IT requires no special curing procedures. If a sealer other than EUCOSEAL is desired, use a product such as SUPER AQUA-CURE VOX or SUPER DIAMOND CLEAR VOX.

CLEAN-UP

Clean tools and equipment with water before the material hardens.

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.

Form Dam-It-6.97

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