

TECHNICAL DATA SHEET

DESCRIPTION

Hydraulic Cement is a non-corrosive, non-rusting, extremely fast setting hydraulic cement compound for plugging and stopping active water leaks in concrete structures or masonry surfaces. When mixed with water to a thick consistency and hand formed into a plug, it will stop active leaks even under water.

USE

Hydraulic Cement is designed to be used to stop water flow through non-moving cracks, crevices and holes in concrete or masonry surfaces; it stops leaks into or out of basement walls, concrete blocks, tubs, swimming pools, concrete pipe, culverts, manholes, elevator pits, and storm drains. Hydraulic Cement can be used as a plug for cisterns, sewers, tunnels, mines and dams.

FEATURES

- Stops active water leaks
- Extremely fast setting
- Strong and durable
- Interior or exterior use

PROPERTIES

Compressive Strength (ASTM C-109)
 1 Hour 1500 psi (12.4 MPa)
 1 Day 3500 psi (24.1 MPa)
 7 Day 4000 psi (27.5 MPa)
 28 Day 4500 psi (31.0 MPa)

Setting Times (ASTM C-226):

Initial: 1-3 Minutes

Final: 2-4 Minutes

Note:

The data shown is typical for controlled laboratory conditions. Reasonable variation from these results can be expected due to interlaboratory precision and bias. When testing the field mixed material, other factors such as variations in mixing, water content, temperature and curing conditions should be considered.

Estimating Guide

Yield: Approximately 0.5 cu. ft/50 lbs. (0.014 cu. m/22.7 kg) pail

Packaging

PRODUCT CODE	PACKAGE	SIZE	
		lbs.	kg
307979	Pail	50	22.67

STORAGE

Shelf life of unopened containers, when stored in a dry facility, is 18 months. Excessive temperature differential and /or high humidity can shorten the shelf life expectancy. Store in a cool, dry area free of direct sunlight.

Surface Preparation:

Slightly undercut the hole to be plugged and enlarge small cracks to permit embedment of material. Recommended minimum size of hole or crack is 0.75 in. (1.9 cm) wide and deep. Remove all loose dirt or aggregate. Surfaces should be wet prior to placement.

Water Requirements:

Approximately 22% by weight or 1 pint (0.47 L) water per 10 lbs. (4.54 kg), use only enough water to bring material to a stiff putty consistency.

Mixing

Mix Hydraulic Cement in a small container by adding Hydraulic Cement to clean mix water, mixing no more than can be placed at one time. When mixing less than a full unit, always first agitate the pail so that a representative sample is obtained. Cold water or material will decrease set time, hot water or material will increase set time.

Placement:

Form the mix in the hand by shaping a ball or wedge shape to the consistency of putty and force into the opening with a gloved hand or trowel. Accelerated hydration will cause the material to feel warm to the touch. The material will reach final set in about 2-4 minutes so it must be placed immediately. Material may be shaved after initial set to conform to substrate contour.

CURING

Keep material wet with water until final set and material has cooled, approximately 15 minutes.

CLEAN UP

Use clean water. Hardened material will require mechanical removal methods.

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LIMITATIONS

FOR PROFESSIONAL USE ONLY

Always mix Hydraulic Cement to a stiff, putty like consistency. Quickly mix and apply Hydraulic Cement as it will begin to harden immediately. Care should be taken to plan mixing and placing. Always keep container tightly sealed when not in use. Not for use in moving cracks. Not for use as a surface applied material or coating. Maintain minimum application widths and depths. Wet substrate prior to placement; keep the material wet for a minimum of 15 minutes after placement.

PRECAUTIONS

READ SDS PRIOR TO USING PRODUCT

- Product contains Crystalline Silica and Portland Cement - Avoid breathing dust – Silica may cause serious lung problems
- Use with adequate ventilation
- Wear protective clothing, gloves and eye protection (goggles, safety glasses and/or face shield)
- Keep out of the reach of children
- Do not take internally
- In case of ingestion, seek medical help immediately
- May cause skin irritation upon contact, especially prolonged or repeated. If skin contact occurs, wash immediately with soap and water and seek medical help as needed.
- If eye contact occurs, flush immediately with clean water and seek medical help as needed
- Dispose of waste material in accordance with federal, state and local requirements

MANUFACTURER

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WARRANTY

Dayton Superior Corporation ("Dayton") warrants for 12 months from the date of manufacture or for the duration of the published product shelf life, whichever is less, that at the time of shipment by Dayton, the product is free of manufacturing defects and conforms to Dayton's product properties in force on the date of acceptance by Dayton of the order. Dayton shall only be liable under this warranty if the product has been applied, used, and stored in accordance with Dayton's instructions, especially surface preparation and installation, in force on the date of acceptance by Dayton of the order. The purchaser must examine the product when received and promptly notify Dayton in writing of any non-conformity before the product is used and no later than 30 days after such non-conformity is first discovered. If Dayton, in its sole discretion, determines that the product breached the above warranty, it will, in its sole discretion, replace the non-conforming product, refund the purchase price or issue a credit in the amount of the purchase price. This is the sole and exclusive remedy for breach of this warranty. Only a Dayton officer is authorized to modify this warranty. The information in this data sheet supersedes all other sales information received by the customer during the sales process. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM, TRADE OR OTHERWISE.

Dayton shall not be liable in contract or in tort (including, without limitation, negligence, strict liability or otherwise) for loss of sales, revenues or profits; cost of capital or funds; business interruption or cost of downtime, loss of use, damage to or loss of use of other property (real or personal); failure to realize expected savings; frustration of economic or business expectations; claims by third parties (other than for bodily injury), or economic losses of any kind; or for any special, incidental, indirect, consequential, punitive or exemplary damages arising in any way out of the performance of, or failure to perform, its obligations under any contract for sale of product, even if Dayton could foresee or has been advised of the possibility of such damages. The Parties expressly agree that these limitations on damages are allocations of risk constituting, in part, the consideration for this contract, and also that such limitations shall survive the determination of any court of competent jurisdiction that any remedy provided in these terms or available at law fails of its essential purpose.