

DURAPLUG™

Quick-Setting Hydraulic Cement

MANUFACTURER

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PRODUCT DESCRIPTION

DURAPLUG is a one-component, quick-setting, durable hydraulic cement plug. DURAPLUG is a non-shrink cement patch with great flexural and bond strengths. DURAPLUG is free of chlorides and corrosive type materials. The time-proven uses of DURAPLUG assures watertight seals at joints, sewer lines, tanks, tunnels and mines; immediately stops running water or seepage through cracks in concrete sewer pipes, manholes, tanks, elevator pits, or concrete surfaces exposed to hydraulic water pressure.

FEATURES & BENEFITS

- Sets quickly.
- Non-metallic.
- Very rapid strength gain.
- Freeze/thaw resistant.
- Stops running water and seepage.

ESTIMATING

DURAPLUG: Four 10 pound (4.5 kg) cans per carton and 50 pound (22.7-kilograms) resealable plastic pails. Yield 15 cubic inches per pound (245 cm³/454 g).

TECHNICAL DATA

Applicable Standards:

ASTM C 928

Typical Properties:

All data based on typical performance.

Set Time, ASTM C 191, 70°F (21°C)

Initial 3 min.

Final 5 min.

Compressive Strength, ASTM C 109

1 hour= 1500 psi

28 days = 5750 psi

Flexural Strength, ASTM C 78

24 hours =730 psi

28 days = 1,040 psi

Tensile Strength, ASTM C 190 28 days 531 psi

Volume Change, ASTM C 157 3 days..... +0.0

Scaling Resistance,
ASTM C 672 25 cycles.....0

INSTALLATION

Surface Preparation: Chip away soft, deteriorated unsound concrete. Clean surfaces of oil, grease, dirt and laitance down to sound concrete. Dampen surfaces with water.

Mixing: Mix DURAPLUG with clean water only. Add enough water to develop a putty-like consistency at a ratio of one part water to 3 parts DURAPLUG. Mix for 1 minute. Mix only enough that can be placed in 3 minutes.

Placement: No leaks present: Place DURAPLUG with minimum working or rubbing. Force DURAPLUG into crack or hole using maximum pressure. Keep damp for 15 minutes.

Active Leaks: Prepare cracks by chipping out 3/4" deep and wide. The inside of the crack should be wider than the opening to provide good mechanical keyway. Hold DURAPLUG in hand until it become warm. Start at top of opening forcing firmly into small section of crack. Hold until set. Follow the same procedure working down the crack until the crack is filled and water stops running. Avoid leaving a "V-shaped" opening.

To seal a crack at the floor and wall junction, force DURAPLUG into prepared crack with a round tool. Smooth and form cove at junction.

Curing: Standard curing procedures should be followed.

FOR BEST RESULTS:

- Do not over mix.
- Do not over wet.
- Do not retemper.
- Protect aluminum rails, bolts and posts from cement contact.
- Do not mix more than can be placed in 2-3 minutes.
- Use cold water to slightly increase working time.
- Surface temperature must be above 40°F (4°C) and rising.

PRECAUTIONS

Contains portland cement and silica sand. Freshly mixed cement is highly alkaline and may cause skin injury. Wear rubber gloves and eye protection. Avoid creating and inhaling dust. Provide ventilation and respiratory protection.

Please refer to Product Material Safety Data Sheet (MSDS) before using.

STORAGE/SHELF LIFE

DURAPLUG containers are to be kept tightly closed. Shelf life is a minimum of one year in unopened sealed containers.



WEBSITE

L&M's convenient internet website offers instant access to Tech Data Sheets, Material Safety Data Sheets, product updates, and other useful information. Visit www.lmcc.com and follow the easy steps. L&M is ready to respond to your concrete information needs - anytime - anywhere!

LIMITED WARRANTY

This product is warranted to be free of defects in material and workmanship, and conform to L&M Construction Chemicals ("L&M") quality control standards. All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty or guaranty of any kind, expressed or implied including but not limited to, an implied warranty of merchantability or an implied warranty of fitness for a particular purpose. Satisfactory results depend upon many factors beyond L&M's control. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk, loss, damage, expense and liability resulting from his or her direct use, indirect use or consequential to their use of the product. L&M shall not be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use or inability to use the product. L&M's sole responsibility shall be to replace that portion of the product which proves to be defective. Any warranty claim must be made within six (6) months from the date of the claimed breach. This limited warranty applies only if the product was properly installed and used according to all instructions and was properly stored prior to use.

For Professional Use Only.

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