

REDI-PLUG

Pre-packaged, fast-setting concrete repair mortar containing industrial hydraulic cements.

Redi-Plug is designed to set within 30 seconds under normal jobsite conditions.

FEATURES & BENEFITS

- Sets within 30 seconds.
- Easy to use, just add water.
- Non-metallic and does not contain calcium chlorides, plasters or gypsum.
- Superior bond, will not wash out.
- Durable to hot or cold temperatures.
- Colour similar to concrete grey.
- Reaches 24 MPa in 24 hours.
- All King products are manufactured using ISO 9001:2000 Certified Processes.

USES

Repairs cracks in concrete sewer pipes, manholes, catch basins, tanks or any other concrete or masonry surfaces that are under hydrostatic water pressure.

PROCEDURES

Surface Preparation:

All surfaces to be in contact with Redi-Plug must be free from dust, oil, grease or any other foreign substances that may interfere with the bond of the material. Remove all delaminated or unsound concrete providing a roughened surface. Cracks or breaks in the concrete should be chiseled out in the shape of a "U" deeper than wider. Clean the area to be repaired with potable water, leaving the concrete saturated but free of standing water (SSD).

Mixing and Placing:

In a disposable plastic pail, place approximately 1 part potable water followed by 3 to 3.5 parts of Redi-Plug (this is an approximate ratio, therefore it is recommended that you add sufficient water which will form a solid ball). Mix quickly and thoroughly with a trowel, once pliable form into a ball and pack it into the repair area without delay. Hold in place for 1 to 2 minutes to ensure full bond has taken place.

Mix only what can be placed within a 10 to 15 second time limit, as the product will start to harden, especially in warm temperatures.

Curing:

Curing is essential to optimize physical properties of Redi-Plug and minimize plastic shrinkage. Redi-Plug should be cured immediately after material has reached initial set in accordance with ACI 308 "Guide to Curing Concrete". Continuously moist cure for a minimum period of 7 days. Alternatively, moist cure for a minimum period of 24 hours and apply King Duro-Cure curing compound or a curing compound that complies with ASTM C 309.

TECHNICAL DATA

The following data is representative of typical values achievable under laboratory conditions. Results in the field may vary.

MIXING RATIO

3:1

COMPRESSIVE STRENGTH

ASTM C 109

6 Hrs	16 MPa (2320 psi)
1 Day	24 MPa (3480 psi)
3 Day	32 MPa (4640 psi)
7 Day	40 MPa (5800 psi)
28 Day	45 MPa (6525 psi)

OPTIMUM PERFORMANCE

- Higher temperatures will accelerate the setting time as cooler temperatures will retard the setting time therefore Redi-Plug is not recommended in temperatures below 10°C (50°F). For repairs that are under hydrostatic pressure, use Duro-Crete UW, specially designed for "Under Water" applications.

YIELD

20 kg (44 lb.) pail contains approximately 0.013 m³ (0.46 ft³).

PACKAGING

Redi-Plug is normally packaged in 4.5 kg (10 lb.) or 20 kg (44 lb.) industrial plastic pails with a sealed tear tab lid and poly wrapped on wooden pallets. All KING products can be custom packaged to suit specific job requirements.

STORAGE AND SHELF LIFE

Material should be stored in a dry covered area protected from the elements. Unopened pails have a shelf life of 12 months.

SAFETY PROCEDURE

Redi-Plug contains hydraulic cements. Normal safety-wear such as rubber gloves, dust mask and safety glasses used to handle conventional cement based products should be worn. Material Safety Data Sheets are available upon request.

This product is designed to meet the performance specifications outlined in this product data sheet. If the product is used in conditions for which it was not intended, or applied in a manner contrary to the written recommendations contained in the product data sheet, the product may not reach such performance specifications. The foregoing is in lieu of any other warranties, representations or conditions, expressed or implied, including, but not limited to, implied warranties or conditions of merchantable quality or fitness for particular purposes, and those arising by statute or otherwise in law or from a course of dealing or usage of trade.

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Mixing Strength With Satisfaction

DIVISION 03930

REDI-PLUG

KING PACKAGED MATERIALS COMPANY

Burlington Office
3385 Harvester Rd.
Burlington, ON
L7N 3N2
Phone: (905) 639-2993
Fax: (905) 333-3730

Blainville Office
650 Boul. Labelle
Blainville, QC
J7C 2J2
Phone: (450) 430-4104
Fax: (450) 430-6855

Brantford Office
541 Oak Park Rd.
Brantford, ON
N3T 5L8
Phone: (519) 756-6177
Fax: (519) 756-7490

Sudbury Office
644 Simmons Rd.
Dowling, ON
P0M 1R0
Phone: (705) 855-1155
Fax: (705) 855-1122