



PRODUCT DATA SHEET

Redi-Plug®

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

PRODUCT DESCRIPTION

Redi-Plug® is a fast-setting concrete repair mortar. It is designed to set within 30 seconds under normal job-site conditions.

WHERE TO USE

Repairs leaks in concrete sewer pipes, manholes, catch basins, tanks or any other concrete or masonry surfaces

CHARACTERISTICS / ADVANTAGES

- 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

PRODUCT INFORMATION

Packaging	20 kg (44 lb) pail		
Colour	Grey		
Shelf Life	12 months in original, unopened packaging		
Storage Conditions	Store in a dry and covered area, protected from the elements		
Compressive Strength	6 hours	16 MPa (2320 psi)	(ASTM C109)
	1 day	24 MPa (3480 psi)	
	3 days	32 MPa (4640 psi)	
	7 days	40 MPa (5800 psi)	
	28 days	45 MPa (6525 psi)	
Mixing Ratio	1:3		
Yield	Approximately 13 L (0.46 ft³)		

BASIS OF PRODUCT DATA

methods.

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test

WHERE TO USE

- Higher temperatures will accelerate the setting time and cooler temperatures will retard the setting time. As a result, the use of Redi-Plug® is not recommended at temperatures below 10 °C (50 °F).

ENVIRONMENT, HEALTH & SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data

SUBSTRATE 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

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 to form a solid ball. Mix quickly and thoroughly with a trowel.

APPLICATION

Once pliable, form into a ball and pack into the repair area without delay. Hold in place for 1 to 2 minutes, to ensure that 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 TREATMENT

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 a curing compound that complies with ASTM C309.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: www.sika.ca

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Product Data Sheet

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