31 73 00



MasterRoc® MP 368

Highly reactive, fire-resistant two-component polyurea silicate injection resin for ground consolidation

Description

MasterRoc MP 368 product is a fast-reacting two-component, solvent-free polyurea silicate injection resin specifically designed for rapid ground consolidation.

Applications

- Consolidation of fractured rock in underground structures
- Consolidation of coal in development roadways and longwalls
- Sealing against gas and water
- Repair of concrete cracks

Features

- Good adhesion to concrete Develops bond strength of 725 psi (5 MPa) in 30 minutes after application
- Mixes easily even at low temperatures (as low as 40 °F [5°C])
- Compressive strength of over 3600 psi (25 MPa) in 24 hours
- High structural strength combined with flexibility
- Injected material has good adhesion to damp and low friction substrates
- Does not absorb water

Benefits

- Increases productivity and shortens injection down-times
- Reduces rock falls typically resulting from unstable ground conditions

Performance Characteristics

Technical Data

Physical properties*:

	Color	Viscosity (mPa.s)	Density, lb/ft³ (g/cm³)
Part A	Colorless	300	93.0 (1.49)
Part B	Dark Brown	115	72.4 (1.16)

^{*@ 73 °}F (23 °C)

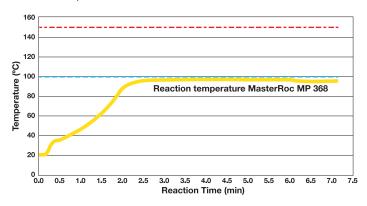
Reaction characteristics:

Mixing Ratio: 1:1 by volume

Testing Temperature	73 °F (23 °C)	
Setting Time	2 min 30 s ± 30 s	
Foam Expansion Factor	1	
Compressive Strength	3600 psi (25 MPa)	
Bond Strength (0.5 h)	725 psi (5 MPa)	
Border Time	< 5 min	

Note: Border time is the time needed to reach 145 psi (1 MPa) bond strength under lab conditions

Reaction Temperature:



Guidelines for Use

Dosage and Application Procedure: MasterRoc MP368 Part A and Part B are delivered ready for use. They should be injected in the ratio of 1:1 by volume, using a two-component injection pump equipped with a static in-line mixer nozzle, as shown in the following picture.



Example of a two-component injection pump.

The curing time is dependent on the temperature of the product and of the ground. Store both MasterRoc MP 368 Part A and Part B at ambient temperatures above 40 °F (5 °C) prior to application.

To achieve a favorable mixing result during injection, the addition of a static in-line mixer in connection with the mixing head is strongly recommended. The length of the static mixer should be approximately 12 in. (300 mm).

Equipment: During short breaks in the injection process, pump MasterRoc 368 Part A through the nozzle including the static in-line mixer.

After the injection process, pump an appropriate cleaning and maintenance agent (such as MasterRoc MP 230 CLN product) or engine oil that does not contain any water through the pump and injection hoses until MasterRoc MP 368 product is completely flushed out. Store the pump and hoses with the cleaning agent inside and seal all the openings.

Storage and Handling

Storage Temperature and Shelf Life: When stored in dry conditions in unopened and tightly closed original containers and within a temperature range of 40 °F and 95 °F (5 °C and 35 °C), the components of MasterRoc MP 368 product have a shelf life of 24 months.

Safety: The use of gloves, eye protection, and safety clothes are recommended. Any physical contact (e.g. skin or eyes) with the product should be avoided. If contact with skin occurs, wash thoroughly using soap and water. In case of eye contact, rinse thoroughly with water and seek immediate medical advice.

Uncured products should not be allowed to enter local drainage systems. Spillage must be collected using absorbent materials such as sawdust or sand, and be disposed of in accordance with local regulations.

For further information on MasterRoc MP 368 products, please refer to the Safety Data Sheet or contact your local Master Builders Solutions representative.

Packaging

MasterRoc MP 368 Product is available in the following packages:

MasterRoc MP 368 Part A: 6 gal (24 L) pails and 53 gal (200 L) drums

MasterRoc MP 368 Part B: 6 gal (24 L) pails and 53 gal (200 L) drums

Related Documents

Safety Data Sheets: MasterRoc MP 368 Part A product, MasterRoc MP 368 Part B product

Additional Information

For additional information on MasterRoc MP 368 product, contact your local sales representative.

Master Builders Solutions, a brand of MBCC Group, is a global leader of innovative chemistry systems and formulations for construction, maintenance, repair and restoration of structures. The Admixture Systems business provides advanced products, solutions and expertise that improve durability, water resistance, energy efficiency, safety, sustainability and aesthetics of concrete structures, above and below ground, helping customers to achieve reduced operating costs, improved efficiency and enhanced finished products.

Utilizing worldwide resources, the Master Builders Solutions community of experts are passionate about providing solutions to challenges within all stages of construction, as well as the life cycle of a structure. At Master Builders Solutions we create sustainable solutions for construction around the globe.

Limited Warranty Notice

Master Builders Solutions Admixtures US, LLC ("Master Builders Solutions") warrants this product to be free from manufacturing defects and to meet the technical properties on the current Technical Data Guide, if used as directed within shelf life. Satisfactory results depend not only on quality products but also upon many factors beyond our control. MASTER BUILDERS SOLUTIONS MAKES NO OTHER WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ITS PRODUCTS. The sole and exclusive remedy of Purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is shipment to purchaser of product equal to the amount of product that fails to meet this warranty or refund of the original purchase price of product that fails to meet this warranty, at the sole option of Master Builders Solutions. Any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by Purchaser. MASTER BUILDERS SOLUTIONS WILL NOT BE RESPONSIBLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFITS) OR PUNITIVE DAMAGES OF ANY KIND.

Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advice are based on Master Builders Solutions' present knowledge and experience. However, Master Builders Solutions assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. Master Builders Solutions reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified experts.

© MBCC Group ■ 04/21 ■ DAT-1191 ® registered trademark of a MBCC Group member in many countries of the world

www.master-builders-solutions.com/en-us