

MasterRoc MP 368

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

Material Description

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

Areas of Application

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

Characteristics and Benefits

- Good adhesion to concrete of 5,0 MPa after 0,5 h
- Mixes easily even in low temperatures > 5°C
- Compressive strength of >25 MPa
- Penetrates cracks wider than ≥ 0.14 mm
- High structural strength combined with flexibility
- Injected material shows good adhesion to damp and low friction substrates
- Neither expands its volume with water nor absorbs water

Properties

	Colour	Viscosity MPa s	Density kg/dm ³
Part A	Colourless	300	1.49
Part B	Dark brown	115	1.16

Tested at 23°C

Mixing ratio: 1 to 1 by volume

Reaction Characteristics

Testing temperature	23°C
Flow time	90 ± 30s
Setting time	2min 30s ± 30s
Foam expansion factor	1
Compressive strength 24h	> 25 MPa
Bond strength 0.5h	5.0 MPa
Border time	< 5 min
Penetration capacity	≥ 0.14 mm

Border time: time needed to reach 1 MPa adhesion strength under lab conditions

Application Procedure

Part A and B are delivered ready to use. They are injected in the proportion of 1:1 by volume using a two-component injection pump equipped with a static in-line mixer nozzle. Proportion part kits accurately by weight, mixing only what can be used in less than 30 minutes. Thoroughly stir Part A, add Part B and blend thoroughly using a slow speed (300-600rpm) mixer fitted with a suitable paddle.

Please note: The curing time is dependent on the temperature of the product and ground. Please store both components prior to application at a temperature of at least +5°C.

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 32 cm.

Cleaning Injection Equipment

For short breaks in the injection procedure pump Part A through the nozzle including the static in-line mixer. After the injection process pump an appropriate cleaning and maintenance agent (MasterRoc MP 230 CLN) or oil containing no water, through the pump and injection hoses until MasterRoc MP 368 is completely washed out. Store the pump and hoses with the cleaning agent inside and seal all openings.

MasterRoc MP 368

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

Packaging

MasterRoc MP 368 is supplied as:

Part A: 36kg cans and 1400kg IBCs

Part B: 28kg cans and 1090kg IBCs

Storage & Shelf Life

MasterRoc MP 368 has a shelf life of 24 months if stored in original, unopened packaging between +5 °C to +35°C. The storage area must be kept dry.

Precautions

For the full health and safety hazard information and how to safely handle and use this product, make sure that you obtain a copy of the Safety Data Sheet (SDS) from our office or website .

Disclaimer

MasterRoc-MP368-ANZ-VI -0523

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this MB Solutions Australia Pty Ltd publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use and for ensuring that the application and use of the product is in accordance with the manufacturer's guidelines and recommendations.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by MB Solutions Australia Pty Ltd either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not MB Solutions Australia Pty Ltd, are responsible for carrying out procedures appropriate to a specific application.

MB Solutions Australia Pty Ltd

ABN 69 634 934 419
Unit 102, 2 Burbank Drive
Norwest NSW 2153

Freecall: 1300 227 300

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

MB Solutions New Zealand Ltd

45C William Pickering Drive
Albany, Auckland
New Zealand

Freecall: +64 9414 7233

Emergency Advice:

1300 954 583 within Australia (24hr)
0800 001 607 within New Zealand

