

# MasterRoc<sup>®</sup> MP 364 Flex

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

## MATERIAL DESCRIPTION

**MasterRoc MP 364 Flex** is a two component, solvent-free polyurea-silicate injection resin specifically designed for rapid stabilisation of strata.

## AREAS OF APPLICATION

- Consolidation of coal and rock strata in development and mining
- Consolidation of fractured rock in roadways, shafts and longwalls
- Sealing against gas and water
- Repair of concrete cracks
- Suitable also for underwater application.

## CHARACTERISTICS AND BENEFITS

- **MasterRoc MP 364 Flex** neither expands its volume with water nor absorbs water
- Penetrates cracks wider than 0.14 mm
- Shows good adhesion to wet and low friction substrates
- Equally fast reaction in dry or underwater conditions
- Very fast reacting material applied where structural strength and Flexibility is required
- Fire resistant

## TECHNICAL DATA

	Colour	Viscosity mPa.s	Density kg/m <sup>3</sup>
Part A	Colourless	300	1490
Part B	Dark brown	150	1180

Viscosity tested at 25°C, Density tested at 20°C

**Flash Point:** Part A - non applicable,  
Part B > 200°C

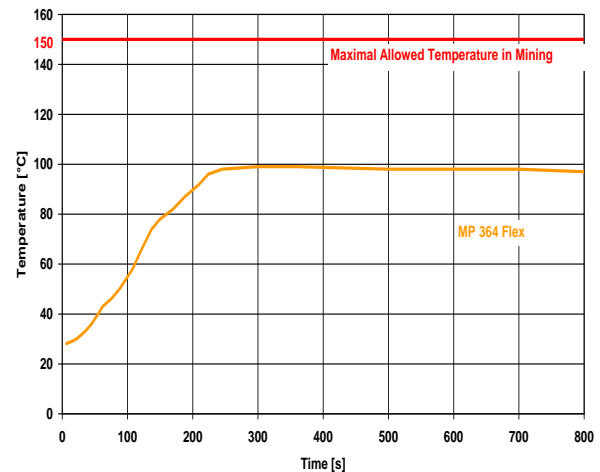
**Mix Ratio:** A:B 1:1 by volume (100:79 by weight)

### Reaction Characteristics:

Testing temperature	23°C
Flow time	90s ± 30s
Setting time	2 min 30s ± 30s
Foam expansion factor	1
Flexural adhesive strength after 24 hours	3.1 N/mm <sup>2</sup>
Border time	< 15 minutes

Border time: time needed to reach 1MPa adhesive strength in lab conditions

## Temperature development during the curing reaction:



## APPLICATION

Parts A & 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.

## SPECIAL REQUIREMENTS

Please note: The curing reaction time is significantly dependent on the temperature of the resin and the injected strata. Please store both components prior to application at a minimum temperature of 15°C.

To achieve an optimal mixing of the components during injection, the inclusion of a static in-line mixer in connection with the mixing head or in the packer is essential. The length of the static mixer should be approximately 320 mm for correct mixing.

## CLEANING OF INJECTION EQUIPMENT

For short breaks in injection, pump only Component A through the mixing head and supply hose. After injection and prior to storage of the equipment, pump water through the A lines and clean engine oil through the pump and injection lines of B-component.

For cleaning, a flushing agent for polyurethane resin should be used. Afterwards fill the complete system with engine oil.

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## PACKAGING

MasterRoc MP 364 Flex is available in the following packaging:

Part A	1400KG palletcons
Part B	1109KG palletcons

## SHELF LIFE

If stored in dry conditions, in unopened, tightly closed original containers and within a temperature range of +5°C and +35°C, the components of MasterRoc MP 364 Flex have a shelf life of 24 months.

Caution: Component A is frost sensitive!

The product must be prevented from freezing.

## 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-MP 364 Flex -ANZ-V9-0221

### 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.

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