

# MasterRoc MP 368TIX

Highly reactive, thixotropic & fire resistant two component polyurea silicate injection resin for ground consolidation in highly fractured strata & for concrete crack repair

## Material Description

MasterRoc MP 368TIX product is a thixotropic two-component polyurea silicate injection resin that is fast reacting, solvent-free, and is specifically designed for rapid ground consolidation in strata with open cracks at the surface. It is also suitable for concrete crack repair. The thixotropic behavior of MasterRoc MP 368TIX product prevents uncured resin from flowing out of the fissures.

## Areas of Application

- Consolidation of fractured rock in underground structures
- Stabilization of face headings
- Sealing against gas and water
- Sealing of cracks in walls and roofs
- Concrete crack repair

## Characteristics and Benefits

- Good adhesion to concrete and rock strata
- Mixes easily even in low temperatures (as low as 5 °C)
- Compressive strength of over 3600 psi (25 MPa) in 24 hours
- Thixotropic behavior immediately after mixing
- High structural strength combined with flexibility
- Injected material has good adhesion to damp and low friction substrates
- Does not absorb water and hence, does not expand in the presence of water
- Secure, precise, and flexible injection applications
- Reduces rock falls typically resulting from unstable ground conditions
- Uncured resins remain in the fissures

## Properties

	Colour	Viscosity MPa s	Density g/cm <sup>3</sup>
Part A	Colourless	490	1.40
Part B	Dark brown	115	1.16

Tested at 23°C

## Reaction Characteristics

Mixing ratio: 1:1 by volume

Testing temperature	23°C
Flow time	140 ± 30s
Setting time	3min 30s ± 30s
Foam expansion factor	1
Compressive strength 24h	3600 psi (25 Mpa)
Bond strength (0.5h)	725 psi (5.0 Mpa)
Border time	< 5 min

Border time: time needed to reach 145psi (1 MPa) adhesion strength under lab conditions

## Doseage & Application Procedure

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.

The curing time is dependent on the temperature of the product and of the ground. Store both MasterRoc MP 368TIX Part A and Part B products 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).

## Cleaning Injection Equipment

During short breaks in the injection process, pump MasterRoc MP 368TIX Part A product 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 368TIX product is completely flushed out. Store the pump and hoses with the cleaning agent inside and seal all the openings.

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## Packaging

MasterRoc MP 368TIX is supplied as:

Part A: 35kg cans

Part B: 28kg cans

## 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-MP368TIX-ANZ-VI-0224

### STATEMENT OF RESPONSIBILITY

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