

# MasterRoc MP 768TIX

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

## Material Description

MasterRoc MP 768TIX is a fast reacting, thixotropic two component, solvent-free polyurea silicate injection resin, specifically designed for rapid ground consolidation in strata with open cracks at the surface. Also suitable for concrete repair. The thixotropic behavior prevents un-cured resin to be flow out of the fissures.

## Areas of Application

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

## Characteristics & Benefits

- Good adhesion to concrete and rock strata
- Mixes easily even in low temperatures > 5°C
- Compressive strength of > 35 MPa
- Immediate thixotropic behavior after mixing
- 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

## Technical Data

	Colour	Viscosity mPa.s	Density kg/m <sup>3</sup>
Part A	Colourless	490	1.39
Part B	Dark brown	115	1.16

*Tested at 23°C, density tested at 23°C*

Mixing ratio: 1 to 1 by volume

## Reaction Characteristics:

Testing temperature	23°C
Flow time	140s ± 30s
Setting time	3min30s ± 30s
Foam expansion factor	1
Compressive strength	35 MPa
Bond strength	5.0 MPa
Border time	<5 min

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

## Application Directions

Part A and B are delivered ready for use. They are injected in the ration 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.



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 static mixer should consist of 16 cross-mixing elements or have at least 32 cm of spiral mixing elements inside.

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## Cleaning of 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 768 TIX is completely washed out. Store the pump and hoses with the cleaning agent inside and seal all openings.

## Packaging

MasterRoc MP 768TIX is available in the following packaging:

Part A	1310KG IBC
Part B	1110KG IBC

## Storage & Shelf Life

MasterRoc MP 768TIX has a shelf life of 12 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-MP768TIX-ANZ-V2-0723

### STATEMENT OF RESPONSIBILITY

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