

MasterRoc[®] MP 368 TIX

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 368 TIX is a fast reacting, thixotropic two component 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 uncured 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 and Benefits

- Good adhesion to concrete and rock strata
- Mixes easily even in low temperatures > 5°C
- Compressive strength of > 25 MPa
- Immediate thixotropic behavior after mixing
- 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

Technical Properties

	Part A	Part B
Density (kg/l)	1,39	1,16
Viscosity (mPa.s)	490	115
Color	Colorless	Dark Brown

Mixing ratio Part A to B: 1 to 1 by volume

Reaction Characteristics

Testing temp.	23°C
Flow time	140s ± 30s
Setting time	3min 30s ± 30s
Foam expansion factor	1
Compressive strength 24h	>25 MPa
Bond strength	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

Processing Method

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, as shown below:



example of a two-component injection pump

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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Packaging

MasterRoc[®] MP 368 TIX is supplied as 25 l cans, 200 l drums and 1000 l IBC. Special packaging on request.

Cleaning of Tools

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

Storage and Shelf Life

MasterRoc[®] MP 368 TIX 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.

Health and Safety

For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapor until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

Disclaimer

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is only responsible for the quality of the product **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones.

Contact

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