

MasterRoc[®] MP 364 Flex Formely MEYCO 364 Flex

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

PRODUCT DESCRIPTION

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

236 kg drums
 1109 kg SX-EX containers
 1180 kg MWB containers

FIELDS 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

FEATURES 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

	Color	Viscosity mPa. s	Density kg/1
Component A	Colourless	300	1490
Component B	Dark brown	150	1180

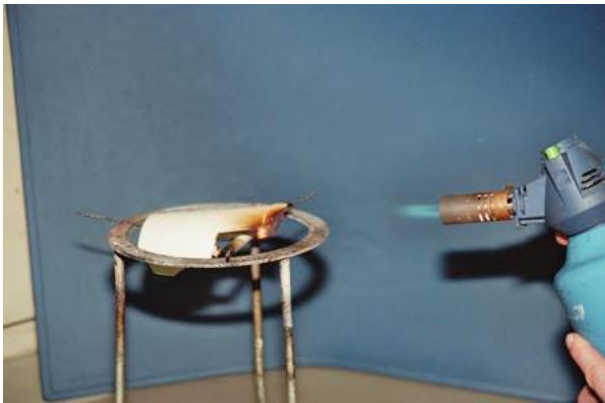
Viscosity tested at 25°C, Density tested at 20°C

Flash point: A non applicable, B > 200°C
 Mix ratio A:B: 1:1 by volume (100: 79 by weight)

REACTION CHARACTERISTIC

Testing temp	23°C
Flow time	90s ± 30s
Setting time	2min30s ± 30s
Foam expansion factor	1
Max. reaction temperature	99°C
Max. bonding strength	6.3 N/m ²
Max. deformation work	1400 Nm
Border Time	< 5 min

Border time: Time needed to reach 1 MPa bonding strength in lab conditions.

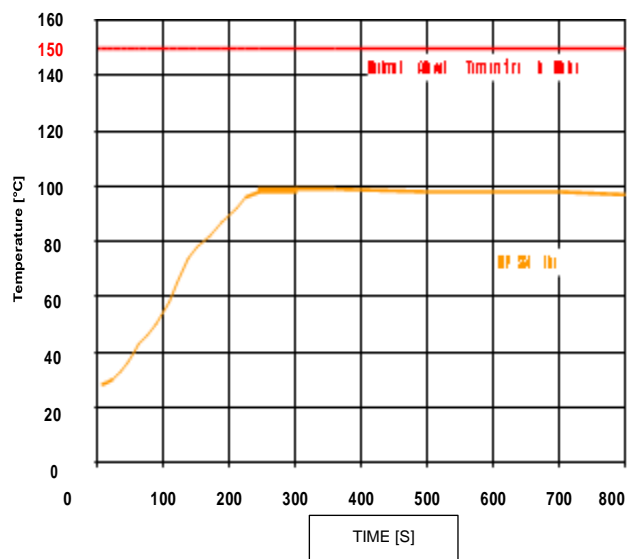


PACKAGING

MasterRoc MP 364 Flex is available in the following packaging:

Component A: 29.6 kg metal cans
 298 kg drums
 1400 kg SX-EX containers
 1490 kg MWB containers
 Component B: 23.4 kg metal cans

TEMPERATURE DEVELOPMENT DURING THE CURING REACTION



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APPLICATION PROCEDURE

Components 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.



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.

STORAGE

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 12 months.

Caution: Component A is frost sensitive! Complete material must be defrosted.

SAFETY PRECAUTIONS

Refer to the Material Safety Data Sheet for safety measures:

MasterRoc MP 364 Flex – Component A
MasterRoc MP 364 Flex – Component B

Avoid contact with skin and eyes by using the required personal protective equipment, such as overalls, gloves and safety glasses.

If contact with skin occurs, wash thoroughly using soap and water. If contact with eyes occurs, rinse thoroughly with an eyebath filled with water and seek medical advice.

The cured products are harmless.

Uncured products should be prevented from entering local drainage system and water courses. Spillage must be collected using absorbent materials such as sawdust and sand, and dispose of in accordance with local regulations.

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