

MasterRoc[®] MP 367 Foam

Highly reactive, two component polyurea silicate injection foam for cavity filling and ground consolidation

Material Description

MasterRoc MP 367 Foam is a two component, solvent-free polyurea silicate foam specifically designed for rapid cavity filling and ground consolidation.

Areas of Application

- Void and cavity filling, also to avoid water or gas accumulation
- Consolidation of fractured rock in underground structures
- Consolidation of rock in coal mines

Characteristics and Benefits

- Very fast reacting material.
- Stable and workable foam structure.
- Does not expand its volume on contact with water.
- Shows good adhesion to wet and low friction substrates.
- Fire resistant (according to DIN4102-B2).

Packaging

Part A: 34 kg cans and 284 kg drums
Part B: 30.6 kg cans and 250 kg drums

Technical Data

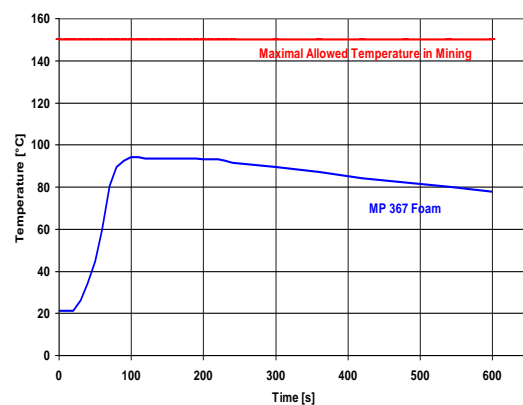
(at 23° C)	Color	Viscosity mPa.s	Density kg/l
Part A	Colorless	60	1.40
Part B	Pale brown	230	1.25

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

Reaction Characteristics

Testing temp.	23°C
Start of foaming	20s ± 10s
End of foaming	40s ± 15s
Foam expansion factor	up to 30
Free rise foam density	45 kg/m ³
Reaction temperature	<99°C

Reaction Temperature



Application Procedure

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 reaction time is dependent on the temperature of the product and the ground. Please store both components prior to application at a mini-mum temperature of 15°C.

To achieve an optimal mixing of the components during injection and cavity filling, the inclusion of a static in-line mixer in connection with the mixing head is strongly recommended. The length of the static mixer should be approximately 32 cm.

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Cleaning of Injection Equipment

For short breaks in the injection procedure, pump Part A through the in-line static mixer nozzle. 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 367 Foam is completely washed out. Store the pump and hoses with the cleaning agent in-side and seal all openings.

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 367 Foam have a shelf life of 24 months.

Precautions

Refer to the Material Safety Data Sheet for safety measures:

MasterRoc MP 367 Foam Part A

MasterRoc MP 367 Foam Part 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 products are harm-less.

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

Disclaimer

The information given here is true, represents our best knowledge and is based not only on laboratory work but also on field experience. However, because of numerous factors affecting results, we offer this information without guarantee and no patent liability is assumed. For additional information or questions, please contact your local representative.

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