

MasterRoc[®] MP 367 Foam

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

DESCRIPTION

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

TYPICAL APPLICATIONS

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

ADVANTAGES

- 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 DIN 4102-B2)

PACKAGING

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

TYPICAL PROPERTIES*

| | Color | Viscosity mPa.s | Density kg/dm ³ |
|--------|------------|--------------------|-------------------------------|
| Part A | Colorless | 60 | 1.40 |
| Part B | Pale brown | 230 | 1.25 |

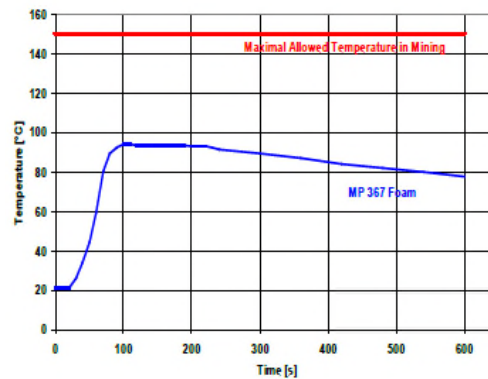
Tested at 23°C

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

REACTION CHARACTERISTICS

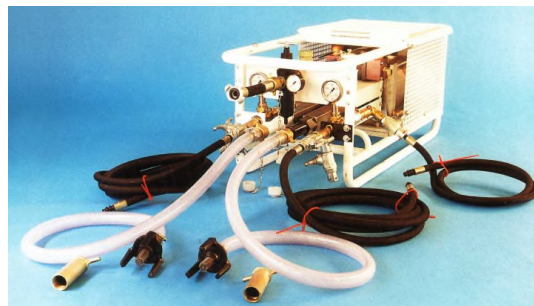
| | |
|------------------------|----------------------|
| Testing temp. | 23°C |
| Start of foaming | 20s ± 10s |
| End of foaming | 40s ± 15s |
| Foam expansion factor | Up to 30 |
| Free rise foam density | 45 kg/m ³ |
| Reaction temperature | <99°C |

REACTION TEMPERATURE



APPLICATION GUIDELINES

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 in the following picture.



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Please note: The curing reaction time is significantly dependent on the temperature of the product and the ground. 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 is strongly recommended. The length of the static mixer should be approximately 32cm.

CLEANING OF INJECTION EQUIPMENT

For short breaks in the injection procedure, pump Part A through the in-line static mixer nozzle. After finishing the injection, pump an appropriate agent or oil which does not contain water through the pump and injection lines.

STORAGE AND SHELF LIFE

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.

HEALTH AND SAFETY

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 harmless.

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.

* Properties listed are based on laboratory controlled tests.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

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