

MasterRoc[®] MP 367 Foam

Highly reactive, two component urea-silicate foam for filling cavities

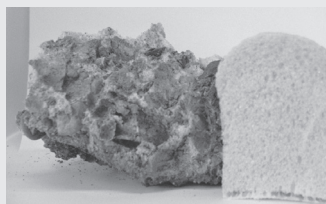
Description

MasterRoc MP 367 Foam two component, solvent-free urea-silicate foam is specifically designed for rapid cavity fillings, and for coal and rock strata consolidation.

Applications

Recommended for use in:

- Filling cavities in coal and strata
- Consolidation of fractured rock, sands, gravels and coal
- Stabilization of cavities in tunnels
- Mine and ventilation seals in coal mines
- Pre-injection TBM tunnel



Features

- Neither expands its volume with water nor absorbs water
- Shows good adhesion to wet substrates
- Good chemical stability
- Predominant closed foam cells

Benefits

- Very fast reacting material, applied where foaming speed, flexibility and flame retardant properties are required

Performance Characteristics

Technical Data

	Color	Viscosity cP (mPa.s)	Density lb/ft ³ (kg/m ³)
Component A	Colorless	70 (70)	87 (1,400)
Component B	Pale Brown	170 (170)	78 (1,250)

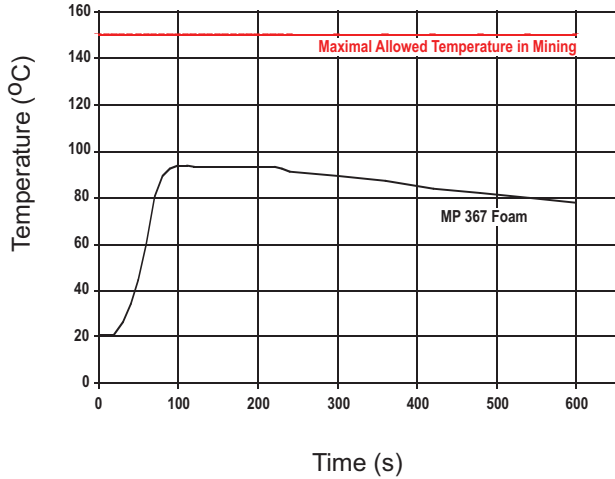
Viscosity tested at 73 °F (23 °C). Density at 68 °F (20 °C)

Flash point:	A not applicable, B > 390 °F (200 °C)
Mix ratio [A:B] :	1:1 by volume (100:89 by mass)

Technical Data

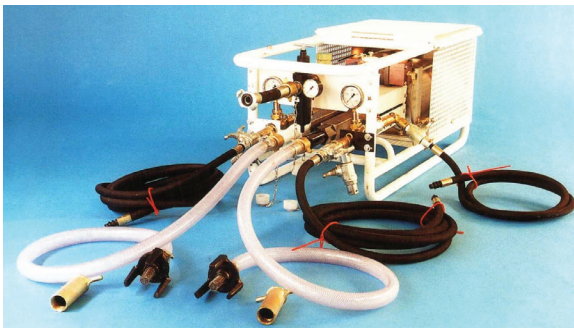
Testing temperature	73 °F (23 °C)
Start of foaming	20 ± 10 s
End of foaming	40 ± 15 s
Foam expansion factor	up to 30
Foam density	minimum 2.8 lb/ft ³ (45 kg/m ³)

Temperature Development During Foaming Reaction



Guidelines for Use

Dosage: 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 (shown below) equipped with a static in-line mixer nozzle.



Mixing: To achieve the best mixing of the components during injection and cavity filling, 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 13 in. (32 cm) for correct mixing.

Special Requirements: The curing reaction time is significantly dependant on the temperature of the polyurethane resin, and the injected strata. Store both components prior to application in warm place of at least 60 °F (15 °C).

Cleaning of Injection Equipment: For short breaks in injection, purge Component A through the in-line static mixer nozzle. After injection and prior to storage of the equipment, pump water through the injection line of Component A and clean engine oil through the pump and injection line of Component B. For cleaning, a flushing agent for polyurethane resin should be used.

Storage and Handling

Storage Temperature: If stored in dry conditions, in unopened, tightly closed original containers and within a temperature range of 40 to 95 °F (5 to 35 °C), the components of MasterRoc MP 367 Foam have a shelf life of 24 months.

Caution: Component A is frost sensitive.

Safety: Refer to the Safety Data Sheet for safety measures. Avoid contact with skin and eyes by using the required personal protective equipment, such as overalls, gloves and goggles. If contact with skin occurs, wash thoroughly using soap and water. If contact with eyes occurs, rinse thoroughly with an eyebath filled with clean water and seek medical advice. The cured products pose no health hazards.

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 disposed of in accordance with local regulations.

Packaging

MasterRoc MP 367 Foam is available in the following packaging:

Component A: 5 gal (19 L) pails
50 gal (190 L) drums

Component B: 5 gal (19 L) pails
50 gal (190 L) drums

Special packaging for coal mining upon request.

Related Documents

Safety Data Sheets: MasterRoc MP 367 Foam Component A;
MasterRoc MP 367 Foam Component B

Additional Information

For additional information on MasterRoc MP 367 Foam, contact your local sales representative.

Master Builders Solutions creates technologies for the construction industry inspiring people to build better. We are active in ~40 countries and operate 35 production sites with over 1,600 employees. We develop, produce, and market high-quality chemical admixtures, as well as adjacent core technologies, to master the challenges of today and support a decarbonized future. Our people are pivotal and pair leading technologies and a strong brand heritage to surpass our customers' expectations and drive continuous value creation.

Limited Warranty Notice

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