

# MasterRoc<sup>®</sup> MP 309

Formerly MEYCO MP 309

02/2016

Low viscosity, fast reacting acrylic resin with high compressive strength for consolidation of sandy and silty strata

## Product description

MasterRoc MP 309 is a highly reactive two-component acrylic grouting resin with a low viscosity for good penetration. The product cures quickly, forming a hard, compact resin with high compressive strength for ground consolidation.

## Fields of application

- Ground consolidation, especially of silty and sandy soils
- Slope stabilization in rock

## Features and benefits

- Good bond strength to fractured rock, even under wet conditions.
- Very low viscosity (close to water), allows deep penetration into very fine cracks and sandy soil.
- Develops mechanical strength quickly.
- Hard compact material with high compressive strength of >15 MPa (injected into DIN ISO 196 sand).
- Good chemical resistance against acids, bases, solvents, fuels, etc.
- Environmentally friendly: Harmless in contact with groundwater and no emission of dangerous substances.

## Packaging

Standard packaging

MasterRoc MP 309 Resin:	20 kg can
MasterRoc MP 309 Accelerator:	5 kg can
MasterRoc MP 309 Part B:	20 kg can
MasterRoc MP 309 Hardener:	0.4 kg can

Also available in:

Resin and Part B	200 kg drum or 1000 kg IBC
Accelerator	20 kg can or 200 kg drum
Hardener	25 kg bag

## Technical data

MasterRoc MP 309 Resin

Appearance	Clear liquid
Viscosity (20°C)	13 mPa·s
Density (20°C)	1.07 kg/l

MasterRoc MP 309 Accelerator

Appearance	Clear liquid
Viscosity (20°C)	280 mPa·s
Density (20°C)	1.12 kg/l

MasterRoc MP 309 Part B

Appearance	Clear liquid
Viscosity (20°C)	10 mPa·s
Density (20°C)	1.04 kg/l

MasterRoc MP 309 Hardener

Appearance	White solid
Density (20°C)	Approx. 2.6 kg/l

Mixed material (mixing ratio Resin: Part B of 1:1)

Appearance	Clear liquid
Viscosity (20°C)	13 mPa·s
Density (20°C)	1.07 kg/l
Gel time (20°C)	1 to 9 minutes
Final curing (20°C)	10 to 20 minutes

## Application procedure

Premix the Resin (20 kg) with 1.25% (0.25 kg) to 25% (5.0 kg) of Accelerator to activate it prior to use. The amount of Accelerator is adjusted to the needed pot life (see Table 1).

To activate Part B, dissolve 2% (0.4 kg) of Hardener in 8.5% (1.7 l) of water. Then mix the solution into Part B (20kg).

The activated Resin and Part B have a pot life of approx. 5 hours at 20 °C. The activated components are injected in the ratio of 1:1 by volume, using a two-component injection pump, equipped with a static in-line mixer.



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Table 1: Accelerator dosage to adjust gel time

Amount of MasterRoc MP 309 Accelerator [%]		Gel time at 10°C [s]	Gel time at 20°C [s]
	[kg] per 20 kg Resin		
1.25	0.25	987	525
2.5	0.5	684	352
5.0	1.0	202	149
7.5	1.5	137	96
10.0	2.0	111	75
12.5	2.5	97	68
25.0	5.0	65	48

Please Note: The reaction time is dependent on the temperature of the components and the ambient.

### Cleaning of injection equipment

Equipment can easily be cleaned of uncured material using water (if possible with a detergent).

### Storage

In unopened, tightly closed containers, the components of MasterRoc MP 309 can be stored for up to 12 months, if kept dry and within a temperature range of +10 °C to +30 °C, protected from sunlight.

### Safety precautions

Please refer to the Material Safety Data Sheet for further safety measures.

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 water and seek medical advice. The cured MasterRoc MP 309 is 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.

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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