

MasterRoc MP 707

Low viscosity, fast reacting acrylic resin for permanent water sealing and layer curtaining of concrete and masonry

Material Description

MasterRoc MP 707 is a highly reactive two-component acrylic sealing resin with a low viscosity for good penetration. The product cures quickly, forming a rubber-like resin with the ability to withstand certain ground and crack movement.

Areas of Application

- Permanent water sealing of tunnel and shaft concrete linings and masonry
- Curtain injection
- Concrete repair - swelling fitted filling of cracks and fissures
- Stopping of minor water inrush through cracks
- Ground stabilization

Characteristics & Benefits

- Upon curing forms a highly flexible compact resin with good adhesion properties even on damp and wet surfaces.
- Very low viscosity (close to water) allows deep penetration at low pressure into very fine cracks or fissures and long flow paths.
- Controlled gel time between 3 and 22 minutes at 20°C.
- Superior flexibility (elongation at break >300%) enabling balance of ground movements or settlements.
- Not sensitive to water and always stays close to its original shape (maximum change of mass -15% to +20%).
- Workable between 5°C and 40°C.
- Neither the liquid nor the cured resin is corrosive and is therefore suitable for reinforced concrete structures.
- Good chemical resistance against acids, bases, solvents, fuels, etc.
- Environmentally friendly: harmless in contact with groundwater and does not emit any dangerous substances.

Technical Data

MasterRoc MP 707 Part A	
Appearance	Clear liquid
Viscosity, 20°C	5 mPa.s
Density, 20°C	1.05 g/cm ³
MasterRoc MP 707 Part B	
Appearance	Clear liquid
Viscosity, 20°C	2 mPa.s
Density, 20°C	1.01 g/cm ³
MasterRoc MP 707 Part C	
Appearance	Clear liquid
Viscosity, 20°C	2 mPa.s
Density, 20°C	0.93 g/cm ³
MasterRoc MP 707 Part D	
Appearance	White powder
Density, 20°C	2.6kg/L

Application

Premix MasterRoc MP 707 Part A (20 kg) with 5% of MasterRoc MP 707 Part C (1 kg) to activate it prior to use. Premix MasterRoc MP 707 Part B with 0.20% (40 g) to 5% (1 kg) of MasterRoc MP 707 Part D powder. The amount of MasterRoc MP 707 Part D is adjusted to the needed pot life (see Table 1).

The activated MasterRoc MP 707 Part A and MasterRoc MP 707 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 or by premixing the two components thoroughly and using a one-component pump (long open time needed).

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Reaction Time

The reaction time depends on the temperature of the product and the ground.

Table 1: Hardener dosage to adjust gel time

Amount of MasterRoc MP 707 Part D		Gel time at 10°C	Gel time at 20°C
Wt%	g per 20kg of Part B	Min	min
0.20	40	24:30	22:00
0.25	50	22:00	20:00
0.50	100	17:30	15:30
1.00	200	13:30	10:00
1.50	300	9:30	7:30
3.00	600	6:00	4:30
5.00	1000	4:00	3:30

Cleaning of Injection Equipment

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

Disclaimer

Packaging

MasterRoc MP 707 Part A (Resin)	20kg
MasterRoc MP 707 Part B	20kg
MasterRoc MP 707 Part (Accelerator)	1.0kg
MasterRoc MP 707 Part D (Hardener)	0.3kg

Storage & Shelf Life

In unopened, tightly closed containers, the components of **MasterRoc MP 707** 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.

Precautions

For the full health and safety hazard information and how to safely handle and use this product, make sure that you obtain a copy of the Safety Data Sheet (SDS) from our office or website.

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STATEMENT OF RESPONSIBILITY

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MB Solutions Australia Pty Ltd

ABN 69 634 934 419
Suite 102, 2 Burbank Place
Norwest NSW 2153

Freecall: 1300 227 300

www.master-builders-solutions.com/en-au

MB Solutions New Zealand Ltd

45C William Pickering Drive
Albany, Auckland
New Zealand

Phone: +64 9 414 7233

Emergency Advice:

1300 954 583 within Australia (24hr)
0800 001 607 within New Zealand