

# MasterRoc<sup>®</sup> MP 302

05/2014

Formerly MEYCO MP 302

Solvent-free, low viscosity, hydrophilic injection resin for special application

## Product description

MasterRoc MP 302 is a two-component low viscosity hydrophilic acrylic grouting resin with a wide range of reactivity. The product may be used between +5 °C and + 40 °C and contains neither solvents nor toxic components.

MasterRoc MP 302 is approved to be used in connection with drinking water.

Components A and B are mixed in the ratio of A:B of 1:1, to be used with one or two-component injection pump. The gel time may be adjusted by varying the quantity of accelerator added to Component A and the concentration of Component B. Due to the hydrophilic nature of the product, the adhesion is good to wet surfaces. There is no foam reaction that could negatively influence the bond. Equipment can easily be cleaned using water.

## Features and benefits

- Very low viscosity allow deep penetration into fine cracks, rock fissures and soils
- Wide range of controlled gel time
- Good bonding to wet surfaces
- Workable between +5 °C and + 40 °C
- Environmentally friendly
- Non corrosive due to high pH
- Low swelling pressure
- Applicable with standard injection pumps
- Flexible gel allowing for structural movement
- No cleaning agents required

## Packaging

Standard packaging

Component A:	20 kg can
Accelerator:	1 kg can
Hardener:	0.2 kg bags

Also available in:

Component A:	200 kg drum
Accelerator:	20 kg can
Hardener:	0.2 kg bags

## Technical data

Form/colour	
Component A:	liquid/light blue
Accelerator for Comp. A:	liquid/colourless powder/white
Hardener for Comp. B:	
High content of active material	45% (mix 1:1)
Viscosity ready mixed	<3 mPa·s
Pre mixed solution stable for	12 hours
pH mixed material	approx. 10
Density (A:B ratio 1:1)	1.05 g/cm <sup>3</sup>

## Application procedure

### Mixing

Refer to Table 1 for mixing instructions.

The accelerator is prepared with water according to table 1 and mixed into the liquid Component A to activate it prior to use. Component B is prepared by dissolving the hardener powder in potable water.

Fast version: (reaction time 6-8 min at 20 °C)

Component A:	20 kg
Accelerator for Comp. A:	5 kg (25%)
Component B (water):	24.4 kg
Hardener for Comp. B:	0.6 kg (2.4%)

Slow version: (reaction time 40-50 min at 20 °C)

Component A:	20 kg
Accelerator for Comp. A:	5 kg (25%)
Component B (water):	24.8 kg
Hardener for Comp. B:	0.2 kg (0.8%)

### Application

The activated Component A and the dissolved Component B are injected in the required proportion by means of a one or two-component injection pump, equipped with a static mixing nozzle.

### Gel time

The gel time of MasterRoc MP 302 depends on the temperature. Normally the gel time is between 3 and 45 minutes. (20 °C)

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## 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 302 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 302 is harmless.

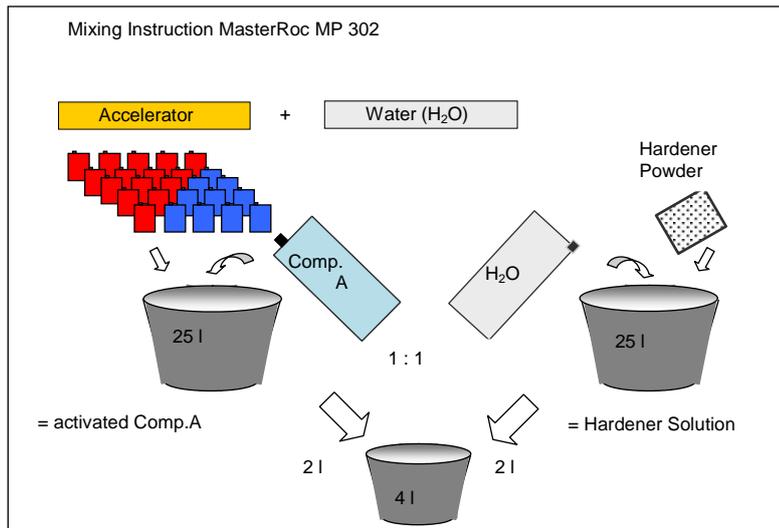
Uncured products should be prevented from entering local drainage systems and water courses. Spillage must be collected using absorbent materials such as sawdust and sand, and disposed of in accordance with local regulations.

**Table 1: Mixing instructions**

		Pot-Life								
		<4 Min	~5 Min	~8 Min	~10 Min	~15 Min	~20 Min.	~30 Min	~40 Min	~50 Min
Application Temperature	5°C	n.a.	5000/0	3000/2000	1500/3500	4500/500	2650/2350	1550/3450	900/4100	600/4400
	10°C	n.a.	5000/0	2000/3000	1100/3900	3100/1900	2200/2800	900/4100	600/4400	500/4500
	15°C	5000/0	4000/1000	1500/3500	1000/4000	2000/3000	1200/3800	600/4300	400/4550	300/4700
	20°C	5000/0	3000/2000	1000/4000	900/4100	1200/3800	700/4300	400/4600	200/4800	180/4820
	30°C	5000/0				550/4450	350/4650			
	40°C		3400/1600	2200/2800	600/4400	250/4750	150/4850			

Accelerator in ml per 20kg MasterRoc MP 302 Component A

Water in ml per 20kg MasterRoc MP 302 Component A



**Mixture of accelerator:**  
The total mixture of accelerator is always 5 Liters. The amount of accelerator indicated in the chart is always filled up with water to 5 liters total.  
Example: 4500 ml accelerator + 500ml water = 5000ml

**Mixture of component A:**  
For setting times/Pot-Life as indicated in the chart, always mix 20 kg of component A with the mixture of accelerator.  
Example:  
20 kg Component A + 5 l mixture of accelerator = 25 kg

**Mixture of component B:**  
For setting times/Pot-Life as indicated in the chart, always mix as follows  
24.8 kg Water + 200 g Hardener powder = 25kg  
For fast setting times (green cells) mix component B as follows  
24.4 kg Water + 600 g Hardener Powder = 25kg

**Caution:**  
The Pot-Life refers to the combined temperature of environment and resin!  
Always test Pot-Life with samples prior to use!  
In cold weather we recommend to store MasterRoc MP 302 at room temperature (approx.20°C).



The Chemical Company

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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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