

# MasterRoc<sup>®</sup> MP 325

Solvent free, low viscosity, hydrophilic grout for rock injection and consolidation of sand and silty strata

## DESCRIPTION

**MasterRoc MP 325** is a one component injection system, based on a nanometric colloidal silica suspension. Due to the hydrophilic nature of the product, the adhesion is also good to wet surfaces. The non-foaming product contains neither solvents nor toxic components.

## RECOMMENDED FOR

- Pre-injection grouting for underground application
- Also suitable for post injection
- Ground improvement
- Water ingress reduction
- Slope stabilization

## FEATURES AND BENEFITS

- Very low viscosity giving excellent penetration
- As the product is non-aggressive, it provides improved working safety
- No environmental impact
- Good bonding to wet surfaces
- Controlled gel time with the use of an accelerator
- Simple mixing and pumping equipment as used with cementitious grouts can be used

## TECHNICAL DATA

### MasterRoc MP 325

Component A

Colour	Clear
Viscosity (20°C, AP-014)	~10 mPa.s
Density (20°C, AP-005)	1.1 kg/l
pH (20°C, AP-009)	10 ± 1
SiO <sub>2</sub> concentration	15 ± 1 %

### BASF MP 320 series Accelerator

Colour	Clear
Viscosity (20°C, AP-014)	~1 mPa.s
Density (20°C, AP-005)	1.07 kg/l
pH (20°C, AP-009)	7

Mixed material (values given are dependent on mix)

Colour	Clear
Viscosity (20°C, AP-014)	~5 mPa.s
Density (20°C, AP-005)	~1.10 kg/l
pH (20°C, AP-009)	~9.8 dependent on ratio

## APPLICATION

The accelerator is added to Part A at the required ratio. Ensure Part A is continuously stirred during the addition of the accelerator, and fully pre-mixed prior to pumping.

The mixture of **MasterRoc MP 325** and the MasterRoc MP 320 series accelerator is workable between +5°C and +40°C. It is pumped with a one component pump, such as a cement grout injection pump, through an injection packer system into the strata. For slow migration into sand and gravels, a worm pump may also be considered.

**MasterRoc MP 325** and accelerator can also be injected using a two-component pump. In this case, a static in-line mixer is necessary to achieve a good mixing of the two components.

To achieve controlled, targeted injection into sands and gravels, it is advised to use double packers within tube à manchette injection tubes (often referred to as "TAMs" or "SPPs") with port centers dependant on the fineness of soils, and degree of stabilization required.

## GEL TIME

The gel time may be adjusted by varying the quantity of accelerator for MasterRoc MP 325 added to Part A. It can be adjusted between 10 minutes and several hours as indicated in Figure 1. For long gel times, the temperature will have a big influence. Site tests are recommended.

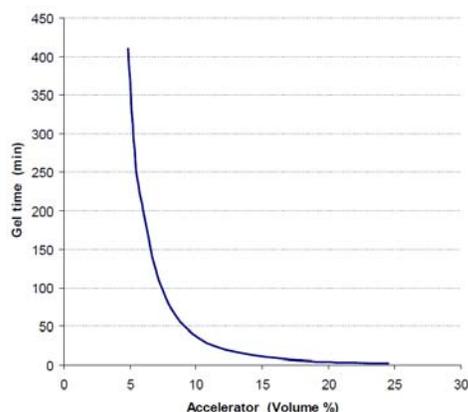


Figure 1: Adjustable gel time with varying accelerator dosage. Values given are at 20°C.



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## PACKAGING

**MasterRoc MP 325** is available in standard sets containing:

- **MasterRoc MP 325** Component A: 210 litre drums or 1000 litre containers
- **MasterRoc MP 320** series Accelerator: 210 litre drums or 1000 litre containers

## CLEANING

All equipment can be cleaned with fresh water.

## SHELF LIFE

In unopened, tightly closed original containers, the components of **MasterRoc MP 325** may be stored for up to 3 months, if kept dry and within a temperature range of +5 to +35°C. Protect from sunlight. After 3 months, the product remains perfectly useable, but a modest increase in dosage of **accelerator may be needed**.

## 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 BASF Safety Data Sheet (SDS) from BASF office or website.

MasterRoc-MP325-ANZ-V2-0717

### STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this BASF 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.

### NOTE

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#### BASF Australia Ltd

ABN 62008437867  
Level 12  
28 Freshwater Place  
Southbank VIC 3006

**Freecall: 1300 227 300**

[www.master-builders-solutions.basf.com.au](http://www.master-builders-solutions.basf.com.au)

#### BASF New Zealand Ltd

Level 4, 4 Leonard Isitt Drive  
Auckland Airport 2022  
Auckland, New Zealand

**Freecall: 0800 334 877**

[www.master-builders-solutions.basf.co.nz](http://www.master-builders-solutions.basf.co.nz)

#### BASF Emergency Advice:

1800 803 440 within Australia (24hr)  
0800 944 955 within New Zealand