

MEYCO[®] MP 320

Solvent-free, low viscosity, hydrophilic chemical grout for rock injection and consolidation of sand and silt strata

Description

MEYCO[®] MP 320 is a “one component” injection system, based on a nanometric Colloidal Silica suspension. The open time can be adjusted with an accelerator. The product may be used between +5°C and +40°C and contains neither solvents nor toxic components. The gel time may be adjusted by varying the quantity of Accelerator for MEYCO[®] MP 320 added to Component A. Due to the hydrophilic nature of the product, the adhesion is also good to wet surfaces. There is no foam reaction that can negatively influence the bond. Equipment can easily be cleaned using water.

Fields of application

MEYCO[®] MP 320 has been developed for injection into fine joints and fissures in rock and for the consolidation of sand and silt based strata. These properties are particularly well suited for the following:

- Pre-injection grouting for tunnelling projects
- Waterproofing of existing tunnels
- Mining applications for waterproofing and stabilisation
- Slope stabilisation in rock
- As a component of ground improvement techniques

Features and benefits

- Very low viscosity
- Controlled gel time with the use of an accelerator
- Simple mixing and pumping equipment as used with cementitious grouts can be used

- Good bonding to wet surfaces
- Workable between +5°C and + 40°C
- As the product is non-aggressive, it provides improved working safety, reduced environmental impact and low handling costs

Packaging

MEYCO[®] MP 320 is available in standard sets containing:

Component A:

210 litre drums or 1000 litre containers

Accelerator for Component A:

2 x 50 kg bags powder

*Technical data

Colour	Milky white
Viscosity (20°C, AP-014)	9mPas
Density (20°C, AP-005)	1.3 g/ml
pH (20°C, AP-009)	9 to 10

Accelerator for MEYCO[®] MP 320 when mixed

Colour	transparent
Viscosity (20°C, AP-014)	~1 mPas
Density (20°C, AP-005)	1.07 g/ml
pH (20°C, AP-009)	7

Mixed material (values given are dependant on mix)

Viscosity (20°C, AP-014)	~5 mPas
Density (20°C, AP-005)	1.25 g/ml
pH (20°C, AP-009)	~9

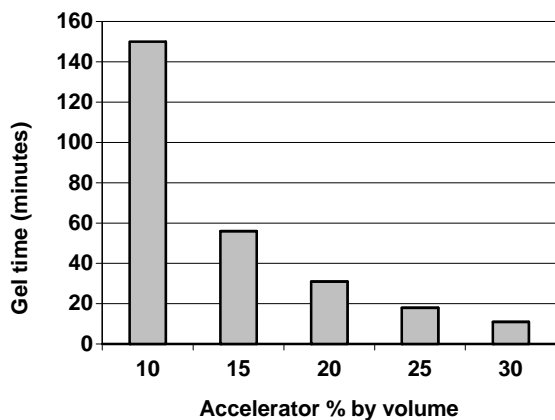
MEYCO[®] MP 320

Application procedure

The accelerator is added to component A at the required ratio, and fully pre-mixed prior to pumping. The mixture of MEYCO[®] MP 320 and accelerator for MEYCO[®] MP 320 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.

Gel time

The gel time of MEYCO[®] MP 320 depends on the dosage of accelerator and temperature. The gel time can be adjusted between 10 minutes and 2½ hours as indicated in Figure 1.



Storage

In unopened, tightly closed containers, the components of MEYCO[®] MP 320 may be stored for up to 6 months, if kept dry and within a temperature range of +5 to +35°C. Protect from sunlight.

Safety precautions

Colloidal silicate will irritate the eyes and the skin. Normal hygienic precautions (protective glasses, gloves and overall) should be taken. Wash hands before eating or smoking. The cured MEYCO[®] MP 320 is physiologically harmless.

For further information, refer to the product Material Safety Data Sheet.

Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF representative.

BASF reserves the right to have the true cause of any difficulty determined by accepted test methods.

Quality and care

All products originating from BASF's Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.

06/95 BASF_CC-UAE revised 03/2010

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* Properties listed are based on laboratory controlled tests.

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