MEYCO® MP355/A3

Highly reactive, two component polyurethane injection foam

Product description

MEYCO® MP355/A3 is a two component, solvent- free polyurethane injection resin specifically designed for rapid water stopping and ground stabilisation.

Fields of application

- Control of high volume water ingress
- Stabilisation of fractured rock, sands and gravels and land-fill materials
- Void filling
- Repair of concrete structures

Features and benefits

- Fast reacting material where structural strength or rigidity is required
- MEYCO® MP355/A3 always reacts with and without water. This is a significant safety advantage as the material is always will be cured
- When in contact with water, the product forms a rigid foam. Without the presence of water, the product also reacts and forms a stiff, rubber-like material
- Fast reaction with water, and reaction completed within a short period of time
- Modification of the reaction can be achieved using a separately supplied accelerator and thixotropic agent to Component A.

Packaging

MEYCO® MP355/A3 is available in the following packaging:
Component A: 25kg cans, or 200kg drums
Component B: 30kg cans, or 240kg drums

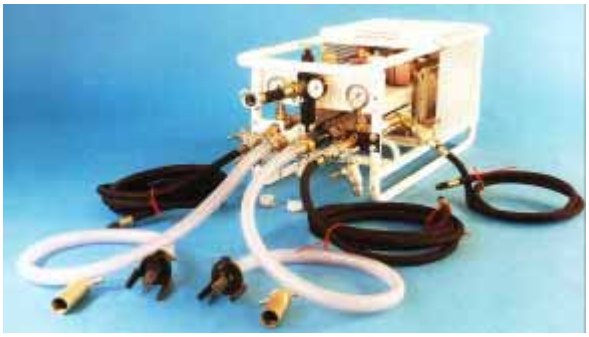
Technical data

	Colour	Viscosity mPa.s	Density kg/m^3
Component A	Brown	250	1.00
Component B	Dk brown	200	1.25
Accelerator for MP355/A3	Lt brown	500	1.00

Taken at 20°C

Application procedure

Components A and B are delivered ready-to-use. They are injected in the proportion of 1:1 by volume using a two component injection pump equipped with a static in-line mixer nozzle, as shown below.



Special Requirements

Please Note: The foaming reaction time is significantly dependant on the temperature of the PU resin, the rock and the ground water. The resin MEYCO MP355 A3 can be given two fundamentally different properties by the use of two different accelerators:

- MEYCO MP355 A3 ACCELERATOR 10
- MEYCO MP355 A3 ACCELERATOR 15

For a high foaming factor (approximately 20-25) and a rapid reaction for water cut-off injection: Add the Accelerator 10 to component A by 0.5 - 1% dosage (by weight of component A) For a dense foam (foam factor 7-9) with high mechanical strength for gound improvement: Add the accelerator 15 to component B by 0.5 - 1% dosage (by weight of component A).

If there is no water in the ground, or a particularly rapid reaction is required, one can premix water to component A, 2% by volume of component A. After the addition of either Accelerator or water to the Component A, the can should be shaken vigorously to ensure even dispersion throughout the resin prior to injection works. To achieve the best mixing of the components during injection, the inclusion of a static in-line mixer in connection with the mixing head is strongly advised. The length of the static mixer should be approximately 50cm for correct mixing.

Cleaning of injection equipment

For short breaks in injection, pump only Component B through the in-line static mixer nozzle. After injection and storage of the equipment pump clean engine or hydraulic oil through the pump and injection lines.

For cleaning, the use of a flushing agent for polyurethane resin should be used.

Storage

If stored in dry conditions, in unopened, tightly closed original containers and within a temperature range of +5°C and +35°C, the components of MEYCO® MP355/A3 have a shelf life of 12 months.

Safety precautions

Refer to the Material Safety Data Sheet for safety measures.
Avoid contact with skin and eyes by using the required personal protective equipment, such as overalls, gloves and eye goggles.
If contact with skin occurs, wash thoroughly using soap and water. If contact with eyes occurs, rinse thoroughly with an eyebath filled with boracic solution and seek medical advice.
The cured products are harmless.
Uncured products should be prevented from entering local drainage system and water courses.
Spillage must be collected using absorbent materials such as sawdust and sand, and dispose of in accordance with local regulations.