

MEYCO[®] MP 364 FLEX

Rock Consolidation with BASF injection resins

Description

- ◆ Meyco[®] MP 364 Flex is a highly reactive, solvent-free, urea-silicate injection resin, specifically designed for rapid stabilization of fractured strata
- ◆ Injected using a two component injection pump, MP 364 Flex has a fast curing time and high adhesive strength
- ◆ It is applied where structural strength along with flexibility is required
- ◆ Meyco MP 364 Flex is unaffected by water. It does not shrink, expand, foam nor absorb water
- ◆ It has equally fast reaction in dry or underwater conditions
- ◆ It has good adhesion to wet and low friction substrates
- ◆ Penetrates cracks as small as 0.006 inches

Features

- ◆ Two-components mixed at a ratio of 1:1
- ◆ Very low exotherm - below 210° F
- ◆ Water has no effect on exotherm
- ◆ Part A contains no organic material (fewer combustion by-products)

- ◆ Resists combustion and is self extinguishing
- ◆ Part B has 20% less isocyanate than PUR's
- ◆ Fast bond strength development
- ◆ Anti-static properties

Benefits of Urea Silicate technology

- ◆ Water insensitive
- ◆ High bonding strength and good mechanical properties like:
 - high compressive strength
 - temperature and aging resistant
 - high sheer strength
 - good grindability
- ◆ Temporary & permanent application
- ◆ Adequate for projects in mining and tunneling
- ◆ Low reaction temperature.

Applications:

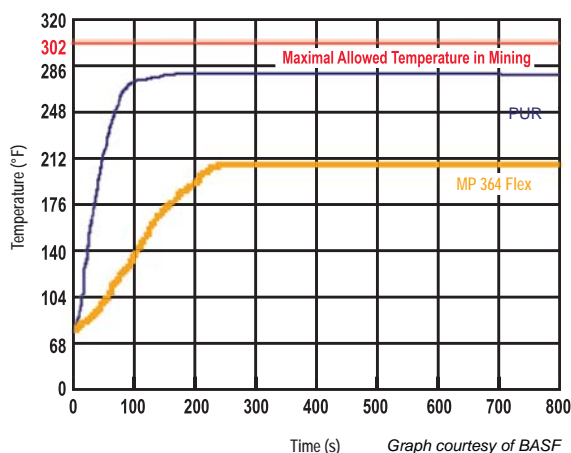
- ◆ Consolidation and stabilization of coal and rock strata
- ◆ Consolidation of fractured rock, coal or gravel in roadways, shafts, coal faces and longwalls
- ◆ Sealing against gas and water
- ◆ Repair of concrete cracks
- ◆ Underwater repairs and applications
- ◆ Rockbolt grouting (in exceptions, not thixotropic)



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Temperature development during the curing reaction:



Performance Characteristics:

Technical Data

	Color	Viscosity cP	Density lb/ft ³
Component A	Colorless	300	0.093
Component B	Dark Brown	150	0.074

Viscosity tested at 77° F Density tested at 68° F

Flash point: A - non applicable B > 390° F

Mix. ratio A:B: 1:1 by volume (100:79 by weight)

Reaction Characteristics:

Testing temperature	73° F
Flow time	90 ± 30 s
Setting time	2 min 30 s ± 30 s
Foam expansion factor	1
Max. reaction temperature	210° F
Max. bonding strength	900 psi
Max. deformation work	1030 lb-ft
Border time* < 5 min	

*Border time: Time needed to reach 145 psi bonding strength in lab conditions.

Special Requirements:

The curing reaction time is significantly dependent on the temperature of the resin and the injected strata. Store both components prior to application at a minimum temperature of 59 °F.

Mixing:

To achieve the best mixing of the components during injection, the inclusion of a static in-line mixer in connection with the mixing head or in the packer is essential. The length of the static mixer should be approximately 12.6 in. (320 mm) for correct mixing.

Cleaning of Injection Equipment:

For short breaks in injection, pump only Component A through the mixing head and supply hose. After injection and prior to storage of the equipment, pump water through the A lines and clean engine oil through the pump and injection lines of B-component. For cleaning, a flushing agent for polyurethane resin should be used. Afterwards fill the complete system with engine oil.

Safety Precautions:

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 water 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 disposed of in accordance with local regulations.

Storage and Handling:

If stored in dry conditions, in unopened, tightly closed original containers and within a temperature range of + 41 °F and + 95 °F, the components of MEYCO MP 364 Flex have a shelf life of 12 months.

Caution: Component A is frost sensitive! Complete material must be defrosted.

BASF products distributed by
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United States



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