

MME UNIVERSAL RESIN

Semi-Rigid Water-Reactive Polyurethane Grout



MME UNIVERSAL RESIN is used to stop water inflows through leaking concrete construction joints in an underground mine shaft.

Description

MME UNIVERSAL RESIN is a low-viscosity polyurethane resin designed for single-component injection.

It penetrates fine cracks in rock and concrete, and reacts with water to form a semi-rigid hydrophobic foam barrier. Once cured, the hydrophobic seal repels water, will not shrink or expand, and serves as a long-term solution to water infiltration.

Advantages

- Suitable for use near potable water
- Stops high-pressure inflows
- Will not shrink or expand after curing
- Controlled reaction time by varying the accelerator dosage
- Resistant to corrosive environments and temperature fluctuations
- Solvent-free and non-toxic

Where to Use

Application – MME UNIVERSAL RESIN is suitable for water cut-off applications in underground mines, rock fissures, tunnels, subways, buried chambers, large hydroelectric dams, and deep excavation sites.

Substrate – concrete, rock

How to Use

Preparation – Drill injection holes to intersect the joint. Flush drill holes to remove drilling dust and debris before installing packers. Select appropriate accelerator ratio and verify that the resulting cure time conforms to project specifications and requirements. Use as low as 1% accelerator dosage for a slow reaction time or as much as 10% for a fast reaction time.

Application – Wipe resin containers to avoid contamination by moisture. At a dry location, pre-mix MME UNIVERSAL RESIN and desired ratio of accelerator. Mix thoroughly until blended without entraining air. If necessary, pre-flush the injection site so enough water is present to activate the resin. Inject using a single-component injection pump. Use separate pumps for resin and water.

Clean Up – Flush pump, hoses and injection accessories with PUMP CLEANER.

Technical Data

Component -	RESIN	ACCELERATOR
Relative Density -	1.131	1.014 to 1.02
Viscosity (25°C) -	235 to 335 cP	32 to 51 cP
Mixing Ratio -	100%	1% - 10%
Colour -	Brown	Clear to pale yellow amber
Physical State -	Liquid	Liquid
Shelf Life -	12 months	12 months
Packaging -	20 kg pails 4 kg bottles	2 kg bottles 500 g bottles



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NSF/ANSI/CAN 61

Certified Drinking Water System Components
Refer to www.wqa.org for restrictions and limitations.

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Limitations

- Reaction occurs with any moisture present
- Reaction times increase as ambient temperature decreases
- Reduction to shelf life after product is opened

Caution

Wipe resin containers to avoid contamination by moisture. Keep container closed when not pouring. Beware of pressure build-up in closed container. Prevent contact with eyes, skin and clothing. Use only in adequate ventilation. Avoid breathing vapours. Do not ingest. Wear appropriate PPE including impermeable gloves and safety glasses.

First Aid

This material is intended to be used by trained professionals with the proper equipment. Refer to the SDS for detailed first aid information.

Related Products

MME Universal Accelerator, Pump Cleaner, Packers, Hydraulic Couplers, Injection Pumps

Related Literature

SDS for MME Universal Resin, SDS for MME Universal Accelerator

Company Overview

Multiurethanes offers technical grouting services for water cut-off, soil stabilization and void filling applications for the same industries that you service; mining, heavy civil, tunneling and utilities. Our services include engineering support, technical services, materials, and equipment.

Technical Service

For additional information, please contact us: 1-800-663-6633 / info@multiurethanes.com



MME UNIVERSAL RESIN is used to stop water inflow problems for tunneling contractors.