

Gel Forming Water-Reactive Polyurethane Resin

Description

MULTI-GEL is a solvent-free, non-toxic, single-component water-reactive polyurethane injection resin. It reacts with water to form a flexible hydrophilic barrier. Depending on the amount of water in the mixture, when cured, MULTI-GEL will vary in consistency from strong elastic rubber-like foams, to stable gels containing as much as 800% water. After curing, MULTI-GEL absorbs limited amounts of water and will shrink slowly if allowed to dry.

Advantages

In the range of 2:1 to 8:1 water:resin ratios, hydrophilic gels are obtained in less than one minute

Non-flammable and contains no volatile solvents

High penetration rates through soils and grouted soils can be excavated

Where to Use

Application – MULTI-GEL was developed to seal active cracks and joints in underground sewers and manholes, even when large seepages or flowing leaks are encountered.

Substrate – Concrete

How to Use

Preparation – Conduct on-site tests in advance using all of the specific ingredients that are proposed for the cellular concrete or grout application. Confirm that appropriate site and laboratory tests have been conducted to show that the result of various mix designs conforms to project specifications.

Application – Install using a fixed ratio or variable ratio two component injection pump to product a controlled gel based on suitable water:resin ratios, taking into account site conditions.

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

Technical Data

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|------------------|-------------------------------|
| Density (20°C) - | 1.08 g/cm ³ |
| Mixing Ratio - | 2:1 to 8:1 water:resin ratios |
| Colour - | Yellow |
| Physical State - | Liquid |
| Shelf Life - | 2 Years |
| Packaging - | 20 kg Pails |



DRINKING WATER SYSTEM COMPONENTS
CLASSIFIED BY
UNDERWRITERS LABORATORY INC. fi
IN ACCORDANCE WITH
STANDARD ANSI / NSF 61 - 9R55

MULTI-GEL

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Limitations

- Low temperatures will significantly affect viscosity
- Avoid splashing water into open containers, as the material is water activated
- Avoid exceeding 32°C when warming pails with heat bands or heated water baths

Caution

Keep container closed. Use only with adequate ventilation. Prevent contact with skin, eyes and clothing. Wash thoroughly after handling. Avoid breathing vapours. Do not ingest. Wear appropriate PPE including impermeable gloves and safety glasses.

First Aid

For eye contact: flush with water; if irritation occurs: seek medical attention. For skin contact: wash with soap and water; if irritation occurs: seek medical attention. For inhalation: move to fresh air; if difficult breathing occurs: seek medical attention. For ingestion: seek medical attention; drink water; do not induce vomiting. Refer to MSDS for more information.

Related Products

Multi-Foam

Related Literature

MSDS

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, technical support, materials, and equipment.

Technical Service

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