

FLEXIBLE RESIN

Flexible Water-Reactive Polyurethane



Cracks and construction joints in potable water structures are permanently sealed with FLEXIBLE RESIN.

Description

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

It penetrates fine cracks and reacts with water to form a flexible foam barrier that stops flowing leaks and seepages. It is suitable for use near potable water. Once cured, the hydrophobic seal repels water, will not shrink or expand, and serves as a long-term solution to water infiltration.

Advantages

- Retains strength, size, and flexibility
- Accelerator to control reaction time
- Resistant to corrosive environments and temperature fluctuations
- Solvent-free and non-toxic

Where to Use

Application – FLEXIBLE RESIN is used for concrete crack injection in residential basements, underground parking structures, waste water treatment facilities, potable water tanks, underground concrete chambers, and other concrete structures where construction joints will move and expand over time.

Substrate – concrete

How to Use

Preparation – Drill 3/8" diameter holes on a 45 to 60 degree angle to intersect the crack or construction joint at the mid-point of the wall. Alternate the drill holes on each side of the crack. Flush drill holes to remove drilling dust and debris before installing packers. Inject cracks using 5% CRACK FLUSHING AGENT, followed by injection of clean water to remove contaminants. Select appropriate accelerator ratio and verify that the resulting cure time conforms to project specifications and requirements. A typical accelerator dosage is 2% for most concrete crack injection work; use as low as 1% for slow reaction time or as much as 10% for fast reaction time.

Application – Wipe resin containers to avoid contamination by moisture. At a dry location, pre-mix FLEXIBLE 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
Density (20°C) -	1.05	0.995
Viscosity -	600 cps	25 cps
Mixing Ratio -	1% - 10%	
Colour -	Light Yellow	Clear
Physical State -	Liquid	Liquid
Shelf Life -	12 mos.	12 mos.
Packaging -	20 kg pails	2 kg bottles



WQA Tested & Certified
according to NSF/ANSI 61

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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. Use only in adequate ventilation. Prevent contact with eyes, skin and clothing. 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

Flexible Accelerator, Pump Cleaner, Crack Flush, Packers, Hydraulic Couplers, Injection Pumps

Related Literature

Polyurethane Injection Products, Typical Specification:
Polyurethane Crack Injection, Foundation Crack Injection Techniques, MSDS

Company Overview

Multiurethanes offers technical grouting services for repair of concrete structures in the same industries that you service; residential and commercial buildings, municipalities, utilities and urban infrastructure. Our services include: engineering, technical support, materials, and equipment.

Technical Service

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

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Leaking cracks are permanently repaired using FLEXIBLE RESIN.