

GTI-1000 Injectable Polymer Rubber Gel

Description

Produced from recycled tire rubber, GTI-1000 is a single component, highly elastomeric polymer rubber infused with special adhesives. GTI-1000 is used to repair water leaks in structures. Due to its superior flexibility, adhesiveness and self-sealing characteristics, GTI-1000 is ideally suited for repairing and restoring damaged waterproofing membrane systems. GTI-1000 is applied by rotor/stator injection pump for effective, permanent waterproofing.

Uses

GTI-1000 is applied in any horizontal or vertical injection application. GTI-1000 can be applied to areas experiencing high volume active water leakage or minimal water leakage. Preventable sealing is also applicable. Applications include the following types of structures: tunnels, underground garages, planters, and plaza decks. GTI-1000 is injected into leaking areas after drilling to the damaged waterproofing layer, restoring the waterproofing integrity. GTI-1000 is used for pipe penetrations, settlement cracks, shrinkage cracks, segments, joints in precast, construction joints, expansion joints and moving joints.

Equipment

GTI-1000 is injected using a rotor stator pump. A hammer drill and an injection pipe with an outer diameter of 5/8" can be used in most applications. Contact RE-Systems Group Americas, Inc. for information on recommended equipment.

Preparation

Determine the thickness of the concrete. Drill 5/8" diameter holes to the waterproofing layer at 3.25' intervals or next to cracks. Install injection packers. For most applications, an injection pipe with an outer diameter is 5/8" and a packer are used to make injection openings.

Features:

- Adhesive in damp conditions, active water leaks, and on surfaces with foreign materials.
- Monolithic self-healing membrane.
- Remains as a flexible gel. Durable to vibration and continuous movement.
- One component. No mixing of chemicals, easy to apply, safe, low odor, easily stored and transported.
- High solids content, solvent free, made from recycled materials.
- Durable. Chemically resistant, resistant to freeze/thaw cycling, dry/wet cycling.

Benefits:

- Ease and effectiveness of application.
- Seeks out leaks and stops them at the source.
- Waterproofing is maintained. No loss of adhesion or separation.
- Cost-effective, reduce labor, save time, fewer mistakes in application.
- Non-toxic, non flammable. Safe application.
- Effective in many different types of environments.

Application

Inject GTI-1000 slowly at low pressure and continue injecting until counter flow from other drilled holes is seen. Remove the injection pipe from the drilled hole that GTI-1000 has counter flowed through. Plug the hole with a rubber stopper and non-shrink mortar. If multiple locations have been drilled, repeat process as necessary. Some applications may require an initial application of polyurethane or other material to fill excessive voids.

Clean Up

Allow GTI-1000 to cool before handling. Dab excessive material with cloth to remove. Additional cleaning can be done with any citrus based cleaner.

Health and Safety

Avoid contact with skin and eyes. Follow all recommended safety guidelines regarding working with hot materials. Wear suitable gloves, masks, protective clothing and safety glasses. See MSDS or SDS.

Transportation

GTI-1000 is classified as a DOT non-hazardous material.

PHYSICAL PROPERTIES – GTI-1000 Injectable Polymer Rubber Gel

Solids Content	•75% (ASTM D 1353)
Flash Point	•No observable flash point (ASTM D 56)
Viscosity	•150,000 cP*, 2,600,000 cP** (ASTM D2196)
pH	•7.5~8.0
Chemical Resistance to Sulfuric Acid	•0.02g <1% weight (KS F 4935)
Chemical Resistance to Hydrochloric Acid	•0.04g <1% weight (KS F 4935)
Chemical Resistance to Nitric Acid	•0.03g <1% weight (KS F 4935)
Chemical Resistance to Sodium Chloride	•0.04g <1% weight (KS F 4935)
Chemical Resistance to Alkali	•0.03g <1% weight (KS F 4935)
Adhesion to damp surfaces	•Rating of 1, no permeability (KS F 4935)
Structural Movement	•No Permeability (KS F 4935)

Results shown are not intended as performance criteria for on-site installed material

*Pump/Application Mixed Condition **Static Applied Condition

Packaging

GTI-1000 is packaged in 44lb (20kg) bricks.

Storage

Store in unopened containers in clean, dry conditions at 50 to 80° F.

Shelf Life

Indefinite, when stored according to recommended storage guidelines.

Limitations

All GEL-TECH SYSTEM components must be installed in immediate succession at time of application. After application, the installed GEL-TECH SYSTEMS must be protected from environmental exposure and preceding trades.

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