GEL-TECH SYSTEMS™
HIGH PERFORMANCE WATERPROOFING

RE-SYSTEMS GROUP AMERICAS

# GTS Polymer Rubber Gel Fluid-Applied Waterproofing Membrane

## Description

Produced from recycled tire rubber, GTS Polymer Rubber Gel is a single component, highly elastomeric modified polymer rubber gel infused with special adhesives. GTS is used in GEL-TECH SYSTEMS Composite GTS-350 positive side and GTS-500 blind side waterproofing systems for above and below grade construction. GTS is applied by a pressurized spray pump. GTS can be applied to green concrete, reducing overall project time and costs. Due to its superior flexibility, adhesiveness and self-healing characteristics, GTS is ideal for effective, permanent waterproofing.

| Features: | Benefits: |
|---|---|
| • Applies to green concrete and on surfaces with foreign materials. No primer necessary. | • Ease and effectiveness of application. |
| • Monolithic self-healing membrane. | • No seams, no water intrusion. |
| • Remains as a flexible gel. Durable to vibration and continuous movement. | • Waterproofing integrity is maintained. No loss of adhesion. |
| • One component. No mixing of chemicals, easy to apply, safe, low odor, easily stored and transported. | • Cost-effective, reduce labor, save time, fewer mistakes in application. |
| • 99% solids content, solvent free, 25% recycled tire rubber, <1% VOC. | • Environmentally responsible. Contributes to LEED Certification. |
| • Durable. Chemically resistant, resistant to freeze/thaw cycling, dry/wet cycling. | • Effective in many different types of environments. |
| | • Can be applied in cold temperatures as low as -5°F. |

## USES:

GTS is applied in both above grade and below grade applications. GTS is suitable for new construction and repair. Applications include the following types of waterproofing: horizontal positive side waterproofing(GTS-350); vertical wall positive side waterproofing (GTS-350); and blind side waterproofing (GTS-500). Areas of application include: plaza decks; elevator pits; poured wall foundations; block wall foundations; brick wall foundations; granite/limestone foundations; foundations; split slab construction; diaphragm wall (blind side); and green roofs.

## Equipment

GTS should be applied with a pressurized spray pump. Contact RE-Systems Group Americas,Inc. for information on recommended spray equipment.

## Preparation

Remove any foreign matter from the concrete surface that extrudes from the surface more than 1/10" with broom or blower. No surface primer is necessary. GTS can be applied to green concrete.

## Application

**GTS-350 SYSTEM** - apply GTS to substrate at an even 90-100 mil thickness, embed GTM-20 Sheet into GTS, lapping seams by 6". Solvent wipe GTM-20 Sheet seams to ensure an intimate bond when taping the seams with GTA-Seam Tape. After seams are taped, the system is complete.

**GTS-500 SYSTEM** - attach GTM-20 Sheet to substrate with fleece side facing installer, lapping seams by 6". Apply pressure using a seam roller to ensure an intimate bond when taping the seams with GTA-Seam Tape. Apply GTS to GTM-20 Sheet at an even 90-100 mil thickness. Embed GTM-20 Sheet, fleece side facing installer, into GTS membrane immediately after application of GTS. Lap GTM-20 Sheet seams by 6", then adhere with GTA-Seam Tape.

## Clean Up

Allow GTS to cool before handling. Cleaning can be done with any citrus based cleaner.

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PHYSICAL PROPERTIES – GTS Poly-Rubber Gel

| | |
|---|---|
| Solids Content | •99% (ASTM D 1353) |
| Resistance to Decay | •0% moisture permeation & weight change (ASTM E 154-88) |
| Hardness | •80 (ASTM C836-89) |
| Puncture Resistance | •102 lbf (ASTM E-154) |
| Flash Point | •>228°C (ASTM D56) |
| Tensile Strength | •190+/- 0.11 lbf (ASTM D-412-98) |
| Elongation % | •394% (ASTM C1135) |
| Hydrostatic Pressure Resistance | •169 lbf/in$^2$ (ASTM D-751) |
| Adhesion to Concrete | •Rating of 1 - Excellent (ASTM D-412-98) |
| Crack Bridging Flexibility | •No cracks (ASTM C-836-89) |
| Moisture Premeablilty | •.0185 perms (ASTM E-96-80) |
| Peel Resistance | •1.01 lbf/in (ASTM D1876-08) |

## 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.

## Packaging
GTS is packaged in 45lb (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.

## Transportation
GTS is classified as a DOT non-hazardous material.

## 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.

For Technical Assistance Contact:

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