

**Modified Polymer Rubber Gel Preformed Membrane Sheet**

**Description**

**GTR-900** is a composite preformed waterproofing membrane which integrates a modified polymer rubber gel with a high-performance polyethylene protection sheet to create a hybrid, integrated waterproofing membrane. **GTR-900** is used for above and below grade construction. Due to its and self-sealing characteristics, **GTR-900** is ideal for effective, permanent waterproofing. **GTR-900** is self-seaming and applied without primer, reducing overall project time and cost. **GTR-900** is applied by simply rolling onto the substrate and applying pressure to assure uniform adhesion.

**Uses**

**GTR-900** is applied in both above grade and below grade applications. **GTR-900** is suitable for new construction and some repair applications.

Applications include the following types of waterproofing:

- Horizontal positive side waterproofing*
- Vertical wall positive side waterproofing*

Areas of application include:

- Plaza decks*
- Elevator Pits*
- Tunnel Lining*
- Poured wall foundations*
- Block wall foundations*
- Brick wall foundations*
- Granite/limestone foundations*
- Split slab construction*
- Green roofs*
- IRMA roofs*

**Features**

Self seaming membrane does not require heat welding of seams or accessory seaming tapes. Creates tight bond with itself.

Self sealing, Self healing, membrane.

Remains permanently flexible. Durable to vibration and continuous movement.

No extensive surface preparation or primers needed. Easy to apply, safe, easily stored and transported.

Durable sheet protection combined with dynamically responsive non-curing gel.

Chemically resistant, hydrocarbon resistant, resistant to freeze/thaw cycling, dry/wet cycling.

**Benefits**

True monolithic sheet system. Eliminates potential leak sources. Quality control and productivity enhancement.

Easy detailing of penetrations, self heals under hydrostatic pressure

Waterproofing is maintained. No loss of adhesion or separation.

Cost-effective, reduce labor, save time, fewer application mistakes.

Responds to substrate movement, thermal expansion/contraction without separation or debonding

Effective in adverse environmental conditions.

**Packaging**

**GTR-900** is packaged in 3.3ft x 32.8ft Rolls.

**Yield**

107.64 sq. ft. per roll

**Transportation**

**GTR-900** is classified as a DOT non-hazardous material.

**Shelf Life**

Indefinite, when stored according to recommended storage guidelines.

**Storage**

Store unopened rolls in clean, dry conditions at 40° to 80° F.

**Technical Data Composition**

**GTR-900** is a modified polymer rubber gel infused with special adhesives combined with a 40mil mod bit protection sheet to create a hybrid, integrated waterproofing membrane.

**Typical Properties**

PROPERTY	VALUE
pH	7.5 ~ 8.0
Specific Gravity	1.1 ~ 1.3
Freezing Point	Below -25° F
Physical State	Sheet
Appearance	Black/Black
Thickness	98.5 mil

**Test Data: GTR-900**

TEST ITEM	UNIT	TEST RESULTS	TEST METHOD
Thickness, Average	Mils(mm)	98.5(2.5)	
Tensile Performance- <b>Tensile Strength</b>	N/mm	13.5 (Length) 10.4 (Width)	KS F 4917
Tensile Performance- <b>Extension Percentage</b>	%	47.2 (Length) 40.0 (Width)	
Tearing Strength	N	118.1 (Length) 118.1 (Width)	
Temperature Performance- <b>Tensile Strength at - 4 °F</b>	N/mm	18.4 (Length) 14.3 (Width)	KS F 4934
Tensile Performance- <b>Extension Percentage at - 4 °F</b>	%	56.6 (Length) 162.0 (Width)	
Temperature Performance- <b>Tensile Strength at 140 °F</b>	N/mm	3.0 (Length) 2.1 (Width)	
Tensile Performance- <b>Extension Percentage at 140 °</b>	%	224.1 (Length) 225.9 (Width)	

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

**How to Apply GTR-900:**

**Preparation**

Surfaces shall be structurally sound and free of voids, spalled areas, loose aggregate and sharp protrusions. Smooth surface irregularities of more than 80mils. Remove contaminants such as grease, oil and wax from exposed surfaces. Remove dust, dirt, loose stone and debris. No surface primer is necessary.

Application should proceed only in dry weather and when substrate temperature is above 15° F

**Application**

Remove release film and roll **GTR-900** onto the surface. Apply pressure in a smooth continuous movement making sure that **GTR-900** adheres evenly over the entire surface. Lap seams 4”.

Detail penetrations, corners and joints with GTR- detail patch.

**Clean Up**

Remove waste and debris from job site.

**Limitations**

Do not apply **GTR-900** in areas where it will be permanently

exposed to sunlight, weather or traffic.

**GTR-900** is not recommended as a pond or tank liner except when installed between concrete slabs

GTR- 900 is not a UV rated material, if should be protected from UV and potential damage immediately after installation or flood test. Backfilling or protection course installation should be done as soon as possible.

**Health and Safety**

Avoid excess contact with skin. Keep out of eyes and mouth. Wear suitable gloves and safety glasses. See MSDS.

For Technical Assistance call: 612-872-1900

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