

KINGFIELD CONSTRUCTION PRODUCTS



TURBO-SHEET GTR-3000™

Modified Polymer Rubber Gel Preformed Membrane

Gel-Flex Composite Waterproofing System

Sheet Applied, Non-Curing Polymer Rubber Gel
Horizontal/Vertical & Above/Below Grade Application

Description

Turbo-Sheet GTR-3000 is a compound preformed waterproofing membrane which integrates a modified polymer rubber gel with a high performance protection sheet to create a hybrid, integrated waterproofing membrane. **Turbo-Sheet GTR-3000** is used for above and below grade construction. Due to its superior flexibility, adhesiveness and self-sealing characteristics, **Turbo-Sheet GTR-3000** is ideal for effective, permanent waterproofing. **Turbo-Sheet GTR-3000** is self-seaming and applied without primer, reducing overall project time and cost. **Turbo-Sheet GTR-3000** is applied by simply rolling onto the substrate and applying pressure to assure uniform adhesion.

Advantages

Features	Benefits
Self seaming membrane does not require heat welding of seams or accessory seaming tapes. Creates tight bond with itself.	True monolithic sheet system. Eliminates potential leak sources. Quality control and productivity enhancement.
Self-sealing, Self-healing membrane.	Easy detailing of penetrations, self heals under hydrostatic pressure
Remains permanently flexible. Durable to vibration and continuous movement.	Waterproofing is maintained. No loss of adhesion or separation.
No extensive surface preparation or primers needed. Easy to apply, safe, easily stored and transported.	Cost-effective, reduce labor, save time, fewer application mistakes. Applies to green concrete.
Durable sheet protection combined with dynamically responsive non-curing gel.	Responds to substrate movement, thermal expansion/contraction without separation or debonding
Chemically resistant, hydrocarbon resistant, resistant to freeze/thaw cycling, dry/wet cycling.	Effective in adverse environmental conditions.

Applications

Turbo-Sheet GTR-3000 is applied in both above grade and below grade applications. **Turbo-Sheet GTR-3000** 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, Poured wall foundations, Block wall foundations, Brick wall foundations, Granite/limestone foundations, Split slab construction, Green roofs, IRMA roofs.

Packaging

Turbo-Sheet GTR-3000 is packaged in 1m x 10m Rolls.

Yield

10 Sq. M – 107.64 sq. ft. per roll

Transportation

Turbo-Sheet GTR-3000 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

Turbo-Sheet GTR-3000 is a modified polymer rubber gel infused with special adhesives combined with a 60 mil 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	Pink/Black
Flash Point	> 200° F

Test Data: Turbo-Sheet GTR-3000

TEST ITEM	UNIT	TEST RESULTS	TEST METHOD
Thickness, Average	<i>Mils(mm)</i>	<i>116 (3.0)</i>	
Tensile Performance- <i>Tensile Strength</i>	<i>N/mm</i>	<i>15.5 (Length)</i> <i>12.4 (Width)</i>	KS F 4917
Tensile Performance- <i>Extension Percentage</i>	<i>%</i>	<i>58.1 (Length)</i> <i>48.0 (Width)</i>	
Tearing Strength	<i>N</i>	<i>133.1 (Length)</i> <i>133.1 (Width)</i>	
Temperature Performance- <i>Tensile Strength at - 4 °F</i>	<i>N/mm</i>	<i>21.4 (Length)</i> <i>16.6 (Width)</i>	KS F 4934
Tensile Performance- <i>Extension Percentage at - 4 °F</i>	<i>%</i>	<i>68.4 (Length)</i> <i>188.0 (Width)</i>	
Temperature Performance- <i>Tensile Strength at 140 °F</i>	<i>N/mm</i>	<i>3.8 (Length)</i> <i>2.9 (Width)</i>	
Tensile Performance- <i>Extension Percentage at 140 °</i>	<i>%</i>	<i>287.4 (Length)</i> <i>267.8 (Width)</i>	

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

How to Apply Turbo-Sheet GTR-3000

Preparation

Surfaces shall be structurally sound and free of voids, spalled areas, loose aggregate and sharp protrusions. Smooth surface irregularities of more than 80 mils. 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 25° F

Health and Safety

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

Application

Remove release film and roll . onto the surface. Apply pressure in a smooth continuous movement making sure that **Turbo-Sheet GTR-3000** adheres evenly over the entire surface. Lap seams 4”.

Detail penetrations, corners and joints with **Turbo-Sheet GTR-3000** detail patch.

Clean Up

Remove waste and debris from job site.

Limitations

Do not apply **Turbo-Sheet GTR-3000** in areas where it will be permanently exposed to sunlight, weather or traffic.

Turbo-Sheet GTR-3000 is not recommended as a pond or tank liner except when installed between concrete slabs

Turbo-Sheet GTR-3000 is not a UV rated material, if should be protected from UV and potential damage.

Backfilling or protection course installation should be done as soon as possible.

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