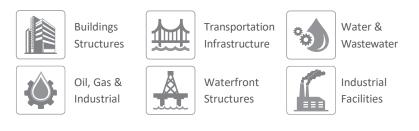
TechnoWrap™BG

Bidirectional Glass Wrap

PRODUCT DESCRIPTION

Ref: TechnoWrap[™]BG | TDS-EN

The Technopol[®] Glass Wrap (TechnoWrap[™]BG) is a 0/90 degree bidirectional, high-strength, non-corrosive E-glass fabric designed to be field laminated with saturant resin to create a glass-fiber-reinforced polymer (GFRP) composite for structural reinforcement applications.



TECHNICAL DATA (DRY FIBER)				
	Unit	TechnoWrap™BG		
Weave Pattern	-	Bidirectional		
Primary Fiber Direction	Degree	0/90		
Weight	gr/m²	400-600		
Color	-	White		
Tensile Strength ISO 10618	MPa	2200		
Tensile Modulus ISO 10618	Gpa	70		
Elongation at Break ISO 10618	%	3.0		
Penetrating Time	Sec	40-75		
Application Methods	-	Hand lay-up Spray machine Robot processes		
Compatible Resins	-	Epoxy, Polyester, Phenolic, Polyurethane, Vinylester		
Shelf Time	years	10		
Storage Condition	-	Store dry at 4°C-40°C		

PHYSICAL PROPERTIES			
Code	Width (mm)	Thickness (mm)	
TechnoWrap™BG400	50-100	0.16	
TechnoWrap™BG600	50-100	0.24	

ADVANTAGES

- High strength
- Lightweight
- Non-corrosive
- Low aesthetic impact
- Ambient cure
- Compatible with many finish coatings



TYPICAL USES

Seismic Retrofit

- Shear strengthening
- Displacement/ductility
- Life safety

Damage Repair

- Deterioration/corrosion
- Blast/vehicle impact

Load Rating Upgrade

- Increased live loads
- New equipment

Defect Remediation

- Size/layout errors
- Low concrete strengths

PACKAGING

Roll Size (Width x Length): 0.5m-1.0m X 50m-67m-100m.

DESIGN

The number of layers, dimensions, and detailing of TechnoWrap[™]BG shall be designed in accordance with ACI 440.2R or another recognized design guideline/code in order to meet the design performance specified for the application.

INSTALLATION PROCEDURE

PREPARATION OF SUBSTRATE

Repair existing substrate per ICRI Guideline No. 310.1R. Concrete shall be





abrasively prepared to achieve an open pore structure in accordance with ICRI Guideline No. 310.2R by means of grinding, sand blasting, shot blasting, or pressure washing. Application surfaces shall be clean, sound, and free of standing water at time of application. All dust, laitance, grease, curing compounds, and other foreign materials that may hinder the bond must be removed before installation. In some applications, such as column confinement, the engineer may determine that the installation is not bond-critical, in which case abrasive surface preparation is not required. Existing concave and convex surfaces must be filled/transitioned using thickened epoxy, or a suitable repair mortar. All corners to be wrapped around shall be rounded to a 13 mm minimum radius using a grinder, or thickened epoxy.

APPLICATION

TechnoWrap[™]BG installation shall only be performed by contractors and personnel who have been properly trained Apply one coat of TechnoWrap[™]BG primer using a nap roller. Where minor surface defects are present, apply epoxy saturant thickened in lifts no thicker 25 mm. Apply the saturated fabric before the primer and paste or thickened epoxy have cured. Sheets can be cut to required length using heavy duty scissors. Saturate fabric mechanically or manually, ensuring that full fiber saturation is achieved. Apply the saturated sheet to the primed surface and remove entrapped air using hand pressure, rollers, or trowels. Apply additional layers as necessary to meet the project requirements, ensuring each layer is in firm contact with the previous layer. Feather all seams and edges with thickened epoxy. Allow epoxy to fully cure (approximately 72 hours at 70°F) and lightly sand epoxy before applying finish coating.

CLEAN UP

Methods for Containment

This material will settle out of the air. Prevent from spreading by covering, diking, or other means.

Methods for Cleanup

Use an industrial vacuum cleaner with a high-efficiency filter to clean up dust and fiber contamination. Avoid dry sweeping. Pick up and transfer to properly labeled containers.

LIMITATIONS

TechnoWrap[™]BG installation shall take place only when the ambient and substrate temperatures are between 7°C and 35°C.

CAUTION

The use of safety glasses and chemically resistant gloves is recommended. Use appropriate clothing to minimize skin contact. The use of NIOSH-approved respirator is required to protect respiratory tract when ventilation is not adequate to limit exposure below the PEL. Refer to Safety Data Sheets (SDS) for detailed information.

FAIRST AID

Skin

Wash fibers off skin with water and soap. If fibers are embedded in the skin, remove with tweezers. Discard clothing that may contain embedded fibers. Seek medical advice if exposure results in adverse effects.

Eyes

Immediately flush with a continuous water stream for at least 20 minutes. Washing immediately after exposure is expected to be effective in preventing damage to the eyes. Seek medical advice.

Inhalation

If there is inhalation exposure to the fibers of this product, remove source of exposure and move victim to fresh air. If victim is not breathing, give artificial respiration. If there is breathing difficulty, give oxygen. Seek medical advice for any respiratory problems.

Ingestion

Ingestion is not a likely means of exposure for this product. If ingestion does occur, do not induce vomiting. Give nothing by mouth if victim is unconscious. Seek medical advice.

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