TECHNICAL DATA SHEET

HYDROBLOC
BUILT ON PERFORMANCE

Geocomp Membrane System

Reinforced Composite Waterproofing Membrane for Embedded Systems

Product Description:

Hydrobloc Geocomp Membrane System is a high-performance polyethylene–polypropylene composite reinforcing membrane engineered to be fully embedded within flexible cementitious and acrylic elastomeric waterproofing coatings. The system enhances the overall waterproofing assembly by providing multi-directional reinforcement, superior crack-bridging capability, and long-term durability, making it ideal for demanding waterproofing applications exposed to movement, hydrostatic pressure, and aggressive environments.

Key Features & Benefits:

- High tensile strength & multi-directional reinforcement
- Superior crack-bridging capability
- Waterproof and impermeable under pressure
- Excellent flexibility (performs even at low temperatures)
- Resistant to alkali, water, and aging
- No shrinkage – maintains dimensional stability
- Enhances durability of waterproofing systems

Areas Of Application:

- Roofs, terraces & podium decks
- Wet areas (bathrooms, kitchens)
- Water tanks & reservoirs
- Basements & retaining structures
- Planters & landscaped areas
- Cracked or movement-prone substrates

Surface Preparation:

- Substrate must be clean, sound, and free of contaminants
- Ensure surface is slightly damp (SSD) for cementitious systems
- Repair all cracks, voids, and defects prior to application

Mixing Instructions:

- Use as part of a compatible Hydrobloc coating system (SF / FX / UL / Elastomeric)
- Prepare coating material as per respective product TDS

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Application Guidelines:

- *Primer / Base Coat:* Apply first coat of Hydrobloc SF, FX or UL OR Hydrobloc Aquaguard Universal Pro Elastomeric Coating
- *Membrane Embedding:* Place Hydrobloc Geocomp membrane into wet coating. Press using roller/brush to eliminate air pockets. Ensure full saturation of membrane
- *Overlaps:* Maintain minimum 50–75 mm overlaps
- *Top Coating:* Apply additional coats to fully encapsulate membrane Ensure uniform thickness and complete coverage

Coverage/ Consumption:

Membrane consumption: 1.05–1.10 m² per m² (including overlaps)

Curing & Protection:

Membrane must be fully encapsulated within the coating system
Follow the curing time of the selected coating. (Typically 24–48 hours initial protection).
Protect from rain, water exposure, direct sunlight and mechanical damage.

Packaging:

Roll width: 1.2 m
Roll length: 50 m
Custom sizes available upon request.

Storage & Shelf life:

Store for up to 12 months in unopened packaging. Keep in cool, dry conditions away from frost and moisture and direct sunlight.

Health & Safety:

Non-hazardous. Use standard PPE. Refer to the Safety Data Sheet (SDS) for full handling and disposal information.

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Technical Data:

Property	Test Condition	Requirement	Result
Mass per Unit Area	-	-	300 g/m²
Tensile Strength (N/cm)	23°C (Longitudinal)	≥50	66.2
	23°C (Transverse)	≥50	64.7
	60°C (Longitudinal)	≥30	47.2
	60°C (Transverse)	≥30	44.5
Elongation at Break (%)	23°C (Longitudinal)	≥100	417
	23°C (Transverse)	≥100	378
	-20°C	≥80	101–102
Tear Strength (N)	-	≥50	66–68
Water Impermeability	0.3 MPa, 30 min	No leakage	Pass
Low Temperature Flexibility	-20°C	No crack	Pass
Composite Strength (MPa)	-	≥0.8	1.0
Dimensional Stability	Heat exposure	Within limits	No Shrinkage
Hot Air Aging (80°C × 168h)	Tensile retention	≥80%	87–88%
	Elongation retention	≥70%	85–89%
Alkali Resistance ($Ca(OH)_2$ × 168h)	Tensile retention	≥80%	87–88%
	Elongation retention	≥80%	85–89%
Peel/Bond Strength	-	≥1.5 N/mm	1.7 N/mm
Water Immersion Retention	23°C × 168h	≥70%	82%

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