

HYDROLOCK

JUTA HYDROLOCK is a mechanically bonded Geosynthetic Clay Liner (GCL) composite of pulverised bentonite embedded between two layers of geotextile. The internal 5 kg of natural sodium bentonite swell in contact with water to form a low permeability waterproofing barrier.

Width	1.15 m
Length	5.1 m

TITANTECH®

For developers of brownfield and contaminated sites the TITANTECH® family of products represent a major step forward in safeguarding projects against gaseous and chemical contamination.

JUTA HYDROLOCK when used with 150 mm properly designed concrete, is satisfactory for use as a fully bonded Type A waterproofing protection as defined in BS 8102:2009 for the waterproofing of new structures. JUTA HYDROLOCK can be used externally on concrete to provide an effective barrier to the transmission of liquid water where Grades 1 to 3 waterproofing protection are required as defined in Table 2 of BS 8102:2009.

Handling

Roll weights can be in excess of 20 kg and hence appropriate care and equipment is required for unloading and handling.

Storage

Rolls of HYDROLOCK should be stored on stable/level ground and stacked not more than five rolls high, with no other material stacked on top. The rolls can be stored outdoors when packaged, but should be protected from exposure to UV.



Feature	Characteristics	Test Method	HYDROLOCK
Geotextile Layer	Carrier Layer (PP Woven) MPUA	EN ISO 9864	100 g/m ²
	Cover layer (PP Non-Woven) MPUA	EN ISO 9864	200 g/m ²
Bentonite (Sodium Bentonite) Layer	Montmorillonite Content	CUR 33 (VDG 69)	> 75 %
	Swell Index	ASTM D 5890	≥ 24 ml/2g
	Fluid Loss	ASTM D 5891	< 18 ml
	Moisture Content	DIN18121-1	< 12 %
	Water Absorption	DIN 18132	> 500 %
Geosynthetic Clay Liner	Mass per unit area of Bentonite	EN 14196	5000 - 5300 g/m ²
	Thickness	EN ISO 9863-1/-2	> 7.0 mm
	Tensile Strength (MD/CMD)	EN ISO 10319	≤ 3.5 x 10 ⁻¹¹ m ² /s
	Permeability	ASTM D 5887	≤ 5.0 x 10 ⁻⁹ m ² /s
	Index Flux	ASTM D 5887	> 550 %
	Grab Tensile Strength	ASTM 4632	> 400 N
	CBR Puncture Resistance	EN ISO 12236	>1.8 kN
	Peel Strength	ASTM D 6496	> 60 N/10cm
	Peel Adhesion to Concrete	ASTM D 903 (mod)	5.3 kN/m
Roll Dimensions	Roll Width x Length	Typical	1.15 x 5.1 m
	Roll Area	Typical	5.865 m²

JUTA UK

Please contact
JUTA UK Directly for
more information on
HYDROLOCK

Installation

HYDROLOCK should be installed in accordance with the product installation guidelines.

Jointing and Sealing

HYDROLOCK should be jointed and sealed in accordance with the product installation guidelines.

Accessory Products

Accessory bentonite is provided with each load of HYDROLOCK to assist with jointing and sealing. Additional bentonite is available on request.

Accessories also include:

- HYDROLOCK STRIP
- HYDROLOCK PASTE
- HYDROLOCK RAIL