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

Product:

# HYDROLOCK

JUTA UK **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 UK **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.

HYDROLOCK			
Characteristic	Test Method	Unit	HYDROLOCK
<b>GEOTEXTILE LAYERS</b>			
Carrier Layer (PP Woven) MPUA	EN ISO 9864	g/m <sup>2</sup>	100
Cover Layer (PP Non-woven) MPUA	EN ISO 9864	g/m <sup>2</sup>	200
<b>BENTONITE (Sodium Bentonite) LAYER</b>			
Montmorillonite Content	CUR 33 (VDG 69)	%	>75
Swell Index	ASTM D 5890	ml/2g	≥24
Fluid Loss	ASTM D 5891	ml	<18
Moisture Content	DIN 18121-1	%	<12
Water Absorption	DIN 18132	%	>500
<b>GEOSYNTHETIC CLAY LINER</b>			
Mass per unit area of Bentonite	EN 14196	g/m <sup>2</sup>	5000
Mass per unit area of GCL	EN 14196	g/m <sup>2</sup>	5300
Tensile Strength (MD/CMD)	EN ISO 10319	kN/m	10.5/8.5
Permeability	ASTM D 5887	m/s	≤3.5 x 10 <sup>-11</sup>
Index Flux	ASTM D 5887	m <sup>3</sup> /m <sup>2</sup> /s	≤5.0 x 10 <sup>-9</sup>
Grab Tensile Strength	ASTM 4632	N	>400
CBR puncture Resistance	EN ISO 12236	kN	>1.8
Peel Strength	ASTM D 6496	N/10cm	>60
Peel adhesion to concrete	ASTM D 903 (mod)	kN/m	5.3
<b>ROLL DIMENSIONS</b>			
Roll Width x Length	Typical	m	1.25 x 5.1m
Roll Area	Typical	m <sup>2</sup>	6.375

\* Data provided are average values derived from standard tests and are subject to usual product variation. The right is reserved to make changes without notice at any time.



**Technical data**



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### HANDLING

Roll weights can be between in excess of 20kg 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.

### INSTALLATION

**HYDROLOCK** should be installed 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**

### ADDITIONAL INFORMATION

For additional information or assistance, please contact JUTA UK directly.

