

Xeric GCL – 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.

Xeric GCL 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.

Xeric GCL 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.

Xeric GCL			
Characteristic	Test Method	Unit	Xeric GCL
GEOTEXTILE LAYERS			
Carrier Layer (PP Woven) MPUA	EN ISO 9864	g/m ²	100
Cover Layer (PP Non-woven) MPUA	EN ISO 9864	g /m ²	200
BENTONITE (Sodium Bentonite) LAYER			
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
GEOSYNTHETIC CLAY LINER			
Mass per unit area of Bentonite	EN 14196	g/m ²	5000
Mass per unit area of GCL	EN 14196	g/m ²	5300
Tensile Strength (MD/CMD)	EN ISO 10319	kN/m	10.5/8.5
Permeability	ASTM D 5887	m/s	≤3.5 x 10 ⁻¹¹
Index Flux	ASTM D 5887	m ³ /m ² /s	≤5.0 x 10 ⁻⁹
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
ROLL DIMENSIONS			
Roll Width x Length	Typical	m	1.25 x 5.1m
Roll Area	Typical	m ²	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.*

HANDLING

Roll weights can be between greater than 20kg and hence appropriate care and equipment is required for unloading and handling.

STORAGE

Rolls of **Xeric GCL** 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

Xeric GCL should be installed in accordance with the product installation guidelines.

ACCESSORY PRODUCTS

Accessory bentonite is provided with each load of **Xeric GCL** to assist with jointing and sealing. Additional bentonite is available on request. Accessories also include:

Xeric HB Waterbar
Xeric HB Waterbar Cage
Xeric Bentonite Paste

ADDITIONAL INFORMATION

For additional information or assistance, please contact Corden EPS directly.

