

DATE RELEASED: 29/04/2019

1904.01.EN

**DECLARATION OF PERFORMANCE**

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**1. Unique identification code of the product type:**

Concrete Canvas (CC)

- CC5
- CC8
- CC13

CC Hydro (CCH):

- CCH5
- CCH8

**2. Intended use:**

The products are for use as erosion control (CC) and containment (CCH) applications such as:

- Channel Lining
- Slope Protection
- Bund Lining
- Remediation
- Culvert Lining
- Weed Suppression
- Lagoon Lining.

Concrete Canvas is intended for use in erosion control applications such as channel lining, slope protection, bund lining, remediation for existing concrete structures affected by environmental degradation and cracking, and culvert lining. The product acts as an effective weed suppressant and provides additional impermeability.

CC Hydro is intended for use as a combined impermeable liner and protection layer for containment applications, such as secondary containment bund lining, channel lining, lagoon lining, and other containment applications such as new-build or remediation of existing infrastructure.

**3. Manufacturer:**

Address: Concrete Canvas Ltd Unit 3, Block A22, Severn Road, Treforest Industrial Estate, Pontypridd. CF37 5SP

Tel: +44 (0)345 680 1908

Website: [www.concretcanvas.com](http://www.concretcanvas.com)**4. Authorised representative:**

N/A

**5. System/s of AVCP:**

For the products covered by this EAD the applicable European legal act is: Decision 96/581/EC. The system is: 2+

**6b. European Assessment Document:EAD 080009-00-0301**

European Technical Assessment: ETA-19/0086

Technical Assessment Body: British Board of Agrément

Notified Body: 0836

## 7. Declared performance: Concrete Canvas & CC Hydro

Essential Characteristic		Unit	Method	Product Performance				
				CC5	CC8	CC13	CCH5	CCH8
<b>Mechanical Resistance and Stability</b>								
1	<b>Thickness (uncured)</b>	mm	EN 1849-2	>4.5	>7.5	>12.5	>5.0	>8.5
2a	<b>Mass per Unit Area (uncured)</b>	kg/m <sup>2</sup>	EN 1849-2	7	12	19	8	13
2b	<b>Density (uncured)</b>	kg/m <sup>3</sup>	EN 1849-2	1500	1500	1500	1500	1500
3a	<b>Initial Flexural Strength</b>	MPa	ASTM D8058	4.0	4.0	4.0	4.0	4.0
3b	<b>Final Flexural Strength</b>	MPa	ASTM D8058	10.0	6.0	6.0	13.0	13.0
4	<b>Static Puncture Resistance</b>							
4a	- Puncture Force	kN	EN ISO 12236	2.0	4.0	4.0	3.5	4.5
4b	- Puncture Displacement	mm		34.4	43.4	5.35	32.7	35.10
5	<b>Dynamic Puncture Resistance</b> Depth of Perforation	mm	EN ISO 13433	0	0	0	0	0
6	<b>Pyramid Puncture Resistance</b>	kN	EN 14574	4.0	7.0	12.5	7.5	10.0
7	<b>Strength of Internal Linking Fibres</b>	kN/m	EN ISO 13426-2	4.0	4.5	5.0	4.0	4.5
<b>Safety and Accessibility in Use</b>								
8	<b>Resistance to Chemicals</b> Retained Initial Flexural Strength							
8a	- Method A <i>Acid (10% solution H<sub>2</sub>SO<sub>4</sub>)</i>	%	EN 14414	NPD	NPD	NPD	79	85
8b	- Method B <i>Alkaline (saturated suspension Ca(OH)<sub>2</sub>)</i>	%		NPD	NPD	NPD	132	138
8c	- Method C <i>Solvation &amp; Swelling (35% vol diesel, 35% vol paraffin, 30% vol lubricating oil HD30)</i>	%		NPD	NPD	NPD	128	110
8d	- Method D <i>Synthetic Leachate</i>	%		NPD	NPD	NPD	133	129
9	<b>Durability</b> Retained Initial Flexural Strength							
9a	- Weathering (UV) Resistance	%	EN 12224	72.4				
9b	- Microbiological Resistance	%	EN 12225	108			137	
9c	- Leaching Resistance Method A <i>Leaching by hot (de-ionized) water</i>	%	EN 14415	115			125	
9d	- Leaching Resistance Method B <i>Leaching by aqueous alkaline liquids (saturated Ca(OH)<sub>2</sub>)</i>	%		84			125	
9e	- Leaching Resistance Method C <i>Leaching by organic alcohols (30% vol methanol, 30% vol isopropanol, 40% vol glycol)</i>	%		99			110	
9f	- Thermal Ageing	%	EN 14575	71			66	
<b>Sustainable Use Of Natural Resources</b>								
10	<b>Abrasion Resistance</b> Cementitious Barrier Abrasion Depth of Wear	mm/1000 cycles	ASTM C1353	0.2				
11	<b>Freeze - Thaw - Retained Initial Flexural Strength</b>	%	EN 12467	101				
12	<b>Water Permeability</b>	m/s	EN 14150	NPD	NPD	NPD	1 x 10 <sup>-11</sup>	
13	<b>Gas Permeability</b>	$\frac{\text{cm}^3 \cdot \text{cm}}{\text{cm}^2 \cdot \text{s} \cdot \text{Pa}}$	ASTM D1434	NPD	NPD	NPD	5 x 10 <sup>-12</sup>	

NPD = No Performance Data

**8. Appropriate Technical Documentation and/or Specific Technical Documentation.**

**The performance of the product identified above is in conformity with the set of declared performance(s). This declaration of performance is issued, in accordance with Regulations (EU) No 305/2011.**

Signature:



Marcin Kujawski  
Manager  
Quality and Research  
Concrete Canvas Ltd