

**CEMCOAT - HIGH PERFORMANCE LIQUID WATERPROOFING MEMBRANE**
**Description**

MacLennan Cemcoat is a two component, thixotropic, cementitious modified polymer waterproofing membrane with high adhesion, designed for the internal and external waterproofing of concrete and steel elements of water-retaining and water-resisting structures such as reservoirs, water tanks, below ground structures, podium decks, and parking areas.

Capable of resisting extremely high positive and negative water pressure, MacLennan Cemcoat forms a hard, highly alkaline coating with a degree of elasticity which has greatly enhanced chemical resistance and so is particularly suited for the protection of concrete within sulphate contaminated ground. It has excellent resistance to the ingress of acid gases, moisture and chlorides to enhance the durability of reinforced concrete and protect highway and coastal structures from chloride attack.

**Key Benefits**

- Very waterproof - Resistant to 10 bar positive and negative pressure
- Quick application in one coat to horizontal surfaces
- Non-toxic when cured
- Sprayable - Up to 2 m<sup>2</sup> per minute is possible
- Hard, durable and UV-stable trafficable finish
- All year round application to damp substrate
- Can be applied at temperatures as low as 5°C
- Very low VOC content
- Very high diffusion resistance to carbon dioxide gas and chloride ions; equivalent to 100 mm of concrete cover
- Excellent adhesion to sound prepared concrete substrates and steel
- Thixotropic - can be applied at 1 mm to vertical surfaces
- High build coating of 2 mm eliminates the incidence of small defects seen within thinner membranes


**Application Rates**

Cemcoat is applied in one, or two coats depending on the application

**Walls & Soffits**

Number of coats = 2  
 Thickness of each coat = 1 mm  
 Total thickness = 2 mm  
 Coverage per coat = 1.8 kg/m<sup>2</sup>  
 Total coverage = 3.6 kg/m<sup>2</sup>  
 Coverage per 30kg container = 8.3 m<sup>2</sup>

**Floors**

Number of coats = 1 or 2  
 Thickness of each coat = 1 mm or 2 mm  
 Total thickness = 2 mm  
 Coverage per coat = 1.8 kg/m<sup>2</sup> or 3.6 kg/m<sup>2</sup>  
 Total coverage = 3.6 kg/m<sup>2</sup>  
 Coverage per 30 kg container = 8.3 m<sup>2</sup>



## CEMCOAT - HIGH PERFORMANCE LIQUID WATERPROOFING MEMBRANE

TECHNICAL DATA						
Features	Result					Units
Form	Part A liquid + Part B powder					
Colour	Grey					
Density/Specific gravity	1.8					
Pack size	30					kg
Yield per kg	0.55					Litres
Shelf life	12					Months
Pot life @ 20°C & RH of 40%	30					Minutes
Application rate – in one or two coats	3.6					kg/m <sup>2</sup>
Application temperature	+5 to +35					°C
Service temperature	-15 to +180					°C
Odour	Low – Characterised as polymeric					
VOC content	0					%
Curing <sup>1</sup>	5°C	10°C	15°C	20°C	25°C	Units
Ready for next coat	80	60	50	40	33	Minutes
To not be adulterated by rain	3	2.5	2	1.5	1.5	Hours
Ready for temporary traffic/protection boards	24	24	22	20	18	Hours
Ready for flood/hosepipe test	8	7	6	5	4	Days
Fully cured	28	28	28	28	28	Days
Cured Performance	Result	Units	Test Method			
Colour	Grey					
Membrane thickness in one or two coats	2.0	mm				
Adhesion to concrete	>2	MPa	BS EN 1542			
Tensile strength	>2.5	MPa	BS6319-7:1994			
Elongation	3 to 5	%	Manufacturer test			
Compressive strength – 1 day	>10	MPa	BS 4551			
Compressive strength – 7 days	>30	MPa	BS 4551			
Compressive strength – 28 days	>40	MPa	BS 4551			
Hardness (28 days)	>75	Shore D	BS EN ISO 868:2003			
Water vapour resistance - S <sub>D</sub> value	0.91	m	BS EN ISO 7783-2			
Water vapour resistance - μ value	455	μ	Calculation from S <sub>D</sub> value			
Water vapour resistance	4.55	MNs/g	Calculation from S <sub>D</sub> value			
Water resistance – Positive & Negative	10	Bar	DIN 1048			
Reaction to fire classification	A2-s1		Euroclass			
Biological resistance	DWI regulation 31 approved					
Thermal compatibility	>2	MPa	EN 13687-1			
UV Resistance - Stable but will discolour	50	Years	²UNI EN ISO 11507:2007			
pH	12-14	MPa				

FOR MORE INFORMATION

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