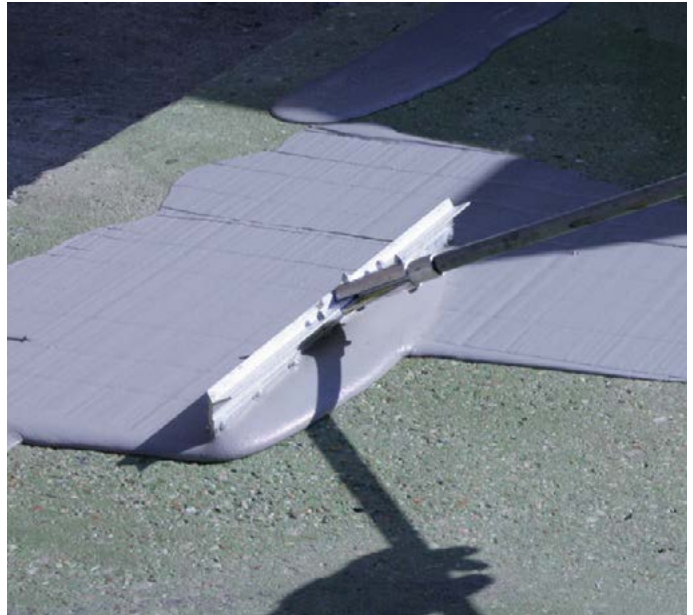


CEMCOAT FLEX - CEMENTITIOUS FLEXIBLE WATERPROOFING MEMBRANE
Description

MacLennan Cemcoat Flex is a two-component, cementitious, polymer-rich coating for the waterproofing and protection of concrete and masonry. Capable of withstanding heads of water pressure to 10 bar, both positively and negatively, MacLennan Cemcoat Flex is ideally suited to the waterproofing of reservoirs, tunnels, water tanks, basements, podium decks, flat roofs, balconies and terraces, and is especially capable where the structure has both masonry and concrete elements, where differential movement is expected, due to its elastic properties.

When mixed, Cemcoat Flex is thixotropic to enable ease of application by brush or airless spray, providing an even finish with no sagging and excellent adhesion to prepared concrete and masonry substrates, even in vertical situations.

MacLennan Cemcoat Flex hydrates to form a durable, highly alkaline, permanently elastomeric coating which not only protects the concrete or other substrates from water penetration and carbon dioxide diffusion, but also accommodates movement in cracks and at movement joints. It is non-hazardous and ideally suited for application in confined spaces.


Key Benefits

- Pre-packaged materials easily mixed on site
- Tough, flexible coating which maintains its elastomeric properties even when immersed
- Good abrasion and very high resistance to freeze thaw cycles and de-icing salts
- Excellent adhesion to sound prepared concrete and masonry substrates, as well as steel
- Dense matrix offers low permeability to water and carbon dioxide gas
- A 2mm coat provides the equivalent to 135mm of good quality concrete cover
- Can be applied to damp substrates in temperatures down to 5°C
- Water-based product. Non-toxic when cured

Application Rates

The membrane is applied to a total thickness of 2.00mm, which requires an application rate of 3.2kg/m².

Walls and soffits

Application is by two coats, each of 1.6kg/m².

Horizontal surfaces

Application is by two coats, each of 1.6kg/m² or by a single coat of 3.2kg/m².

FOR MORE INFORMATION

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TECHNICAL DATA						
Features	Result					Units
Form – Two components	Part A liquid + Part B powder					
Colour	Grey					
Density/Specific gravity	1.6					
Pack size	30					kg
Yield per kg	0.63					Litres
Shelf life	12					Months
Pot life @ 20°C & RH of 60%	45					Minutes
Application rate – in one or two coats	3.2					kg/m ²
Application temperature	+5 to +35					°C
Service temperature	-15 to +180					°C
Odour	Low - Characterised as polymeric					
VOC content - Part A only (none when cured)	1.76					g/L
Curing ¹	5°C	10°C	15°C	20°C	25°C	Units
Ready for next coat	8	7	6	5	3	Hours
To not be adulterated by rain	5	4	3	2.5	2	Hours
Ready for temporary traffic/protection boards	72	72	72	48	48	Hours
Ready for flood/hosepipe test	7	7	7	7	7	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	> 0.8		MPa		BS EN 1542	
Tensile strength	> 0.5		MPa		BS 6319-7:1994	
Elongation	120 to 130		%		Manufacturer test	
Loading capability – 28 days	8 to 10		MPa		BS 4551	
Hardness	84.0		Shore A		BS EN ISO 868:2003	
Water vapour diffusion resistance – S _D value	1.55		m		BS EN ISO 7783-2	
Water vapour diffusion resistance – μ value	775		μ		Calculation from S _D value	
Water vapour diffusion resistance	7.75		MNs/g		Calculation from μ value	
Water resistance – Positive & Negative	10.0		Bar		DIN 1048	
Reaction to fire classification – Not determined	F				Euroclass	
UV Resistance - Stable but will discolour	50		Years		UNI EN ISO 11507:2007 ²	
pH	12					

FOR MORE INFORMATION

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