

Product Description

Techno Shield AA system comprises of a single component, penetrating silane / silaxone primer and a single component pigmented coating, both ready for immediate site use. The primer, Techno Shield primer is supplied as a clear liquid and is based on a silane /silaxone blend dissolved in a penetrating organic carrier. The primer is reactive and capable of producing a chemically bound hydrophobic barrier, thus inhibiting the passage of water and waterborne contaminants. Techno Shield AA is aliphatic acrylate, solvent based protective coating, providing outstanding resistance to aggressive agents, UV light and rain. It is available in a selected range of colours.

Uses

Techno Shield AA To protect atmospherically exposed reinforced concrete structures from attack by acids, gases, chloride ions, sulphates, oxygen and water. The product is also suitable to protect other cementitious substrate and masonry. Techno Shield AA is suitable for use on all types of structures, especially those in aggressive marine and coastal environments. Techno Shield AA is a component of Technokem system of concrete reinstatement

Advantages

- Excellent barrier to carbon dioxide, chloride ions, sulphates, oxygen and water
- Allows water vapour to escape from the structure
- Highly UV resistant aliphatic acrylate gives exceptional resistance to the effects of long term weathering.
- Highly durable in all climatic conditions.
- Selected range of decorative colours.
- Crack bridging ability.
- Anti dust pick up property.

Properties

Properties	Techno Shield AA	Control Concrete
Sp. Gravity	1.2-1.25	
Percentage water absorption after 24 hours	Nil	1.02
Permeability as per BS:1881(ml/m ² /s) after		
2 Hours	Nil	--
6 Hours	Nil	9.0
24 Hours	Nil	30.3
48 Hours	10	52.8
Depth of carbonation in mm (Accelerated carbonation test)		
2 Hours	Nil	1.0
4 Hours	Nil	3.0
6 Hours	Nil	5.0
12 Hours	Nil	7.0
24 Hours	Nil	8.0
Depth of chloride penetration in mm		
After 24 Hours	Nil	> 8.0
48 Hours	Nil	>10.0
Chloride ion diffusion in mg/l		
After 24 Hours	Nil	>300
48 Hours	Nil	>1000
72 Hours	Nil	>2500
Tensile Strength (ASTM D 638)	>2.5N/mm ²	
Elongation (ASTM D 638)	>4%	
Adhesive bond strength to concrete (ASTM D4541)	>2.5N/mm ²	
Alkali & fungal resistance (ASTM D3273)	Passes	
Breathability Test (ASTME96) Breathable	Breathable	
Resistance to UV radiation (ASTM D822)	Passes 100hrs of accelerated weathering in UV	