



HYDROPHOBIC BRIDGEGUARD

Powerful Protection for Bridges and Buildings

Description

Hydrophobic BridgeGuard is the leading EN1504-2 and BD43/03 compliant product to offer environmentally safe, high performance protection against water ingress and contamination for all porous substrates including: Concrete, limestone, sandstone, granite, brickwork, masonry, render, plaster and terra-cotta.

A unique, 2-in-1 product it offers protection against water borne contamination and also excellent protection against graffiti staining.

Highway and railway bridges, multi storey car parks, houses, shops, monuments and coastal structures can all be protected from deterioration caused by concrete carbonation, salt, oil and liquid penetration, ASR, pollution staining, vegetation and graffiti staining. Once treated, any on-going graffiti problem can be easily cleaned using our sister product, Guardian GC. Hydrophobic BridgeGuard is also suitable for horizontal traffic bearing surfaces.

A clear, water borne, non film forming impregnate, this product leaves the treated surface permeable to air and water vapour. It is non-toxic, solvent and silicone free and it is proven worker and environment safe (48 hour acute toxicity test).

Application

- Highway Bridges
- Railway Bridges
- Multi Storey Car Parks
- Houses
- Shops
- Monuments
- Coastal Structures

Benefits

- **Environment and worker safe**
- **Prevents water borne contamination**
- **Anti Carbonation and ASR**
- **Excellent graffiti protection (Graffiti removal with GUARDIAN GC)**
- **Invisible treatment**
- **Single, fast cure application**
- **EN1504-2 and BD43/03 compliant**
- **Protects for up to 15 years**

Technical Specification

COVERAGE	6-8m ² /L
DENSITY	1kg/L
COLOUR	Colourless
ODOUR	None
CONSISTENCY	Liquid
SOLUBLE IN WATER	Fully soluble
DIFFUSION EQUIVALENT AIR LAYER CO₂	>52m (resistance to carbonation)
WATER VAPOR DIFFUSION RH₂₀	<1.9m (Vapor Permeable)
VOC	18g/L
BOILING POINT	100°C
pH	7.5-8.5
APPLICATION TEMP.	5-35°C

Hydrophobic BridgeGuard complies with EN1504-2 and BD43/03

Installation

Hydrophobic BridgeGuard should not be applied to concrete less than 7 days old. The porosity and absorbency of concrete is very variable therefore the following are guidelines only.

A test panel is recommended to determine the actual coverage required to achieve saturation. Guidelines 6-8m²/L. One application only is required.

WEATHER CONDITIONS

Ambient temperature must be between 5-35°C. Treatment can be carried out when the surface is damp (touch dry) but 6 hours of rain free conditions are recommended to ensure that the surface is not wet. Hydrophobic BridgeGuard should not be applied during heavy rain or running water. Suspend application if heavy rain commences.

If rain occurs within 2 hours of application the product must be re-applied to the affected area when the surface becomes touch dry (see guidelines above).



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Installation continued...

PREPARATION OF THE SURFACE

All surfaces must be clean, dry, sound and free of contamination.

Organic, metallic and impermeable materials should be protected from overspray. This product is not a solvent and therefore protection of bitumen-based material is not necessary.

Make provision for trapping or collecting run-off product that may occur during application.

SYSTEM INSTALLATION PROCEDURE

Ensure surface is blown down with compressed air immediately prior to application.

Agitate the containers of Hydrophobic BridgeGuard before individual use to fully disperse the active material.

Apply Hydrophobic BridgeGuard using a brush, roller or spray until the surface is saturated. Take care to maintain saturation until the dosage is fully applied. Keep the surface wet with the product for 15 minutes ensuring drying areas are kept wet.

During the curing period no disturbance or trafficking of the treated area should be permitted. Do not traffic until completely dry as the surface may remain slippery.

Clean all equipment and over-spray/spill with water before drying starts.

GRAFFITI REMOVAL

With curing the product progressively increases resistance to a range of contaminants. Maximum resistance to graffiti is achieved 5-6 days following application.

Graffiti is always easier to remove when fresh. For the removal of old graffiti a graffiti remover, such as Guardian GC, may be required.

The protection provided by Hydrophobic BridgeGuard remains effective even after graffiti removal. However, following many cycles of graffiti removal at the same location, the repellence of the surface may be reduced. Repellence can be confirmed by testing for water beading on the surface.

Packaging and Storage

Package: 5L, 25L and 1000L IBC containers.

Shelf Life/Storage: 12 months away from frost, heat in dry place 5-30°C

Warranty

The Company warrants that the materials meet stated specifications at the time of dispatch from the factory. Techniques used for the preparation of the repair prior to application are beyond the Company's control, as are the use and application of the materials. The Company shall not be responsible for improperly applied or misused materials. There shall be no other warranties expressed or implied.

