

# REPEL WB40

bridgeseal

## Water Repellent for the Protection of Concrete.

### DESCRIPTION OF THE PRODUCT

REPEL WB40 is an environmentally friendly ready-to-use water-based alkylalkoxysilane with a 40% active ingredient. It has been formulated to penetrate dense concrete surfaces and chemically react within the pores of cementitious materials to form a long lasting, high performing water repellent surface. REPEL WB40 will penetrate deep into dense concrete repelling water and corrosive de-icing salts, thus protecting embedded reinforcement from corrosion.

### USES

Protection of new, old and previously treated concrete.

It is suitable for concrete structures such as :

■ Bridges.

[CONFORMS TO THE HIGHWAYS AGENCY DESIGN MANUAL FOR ROADS AND BRIDGES BD43/03 appendix 2.](#)

■ Multi-storey car parks.

■ Coastal defences.

■ Other concrete structures requiring protection from frost or corrosive salt.

### FEATURES AND BENEFITS

■ **NON TOXIC, NON FLAMMABLE, NON HAZARDOUS**

■ Excellent penetration for in-depth protection and durability.

■ One coat application.

■ Water-based for ease of application and safety.

■ Can be applied to damp surfaces.

■ Will not change the surface appearance.

■ No wastage, opened containers can be re-sealed and re-used.

■ Quick, easy and economic to use.

■ Ready to use for maximum quality control.

### APPLICATION PROCEDURE

It is important that applicators follow the procedure outlined below and adhere to the health and safety information.

New concrete must be allowed to cure for a minimum period of five days prior to applying Repel WB40.

As the physical characteristics of concrete vary considerably, it is advisable to apply a small test area (approximately 2m) before starting the general application, to determine coverage rates.

### SURFACE PREPARATION

All surfaces must be cleaned of form oils, grease, curing agents, coatings, dirt and dust or any other contaminants which may prevent good penetration. High pressure water blasting or abrasive blasting may be required to achieve the desired result.

All repairs, joint sealing etc should be complete before application, allowing adequate time for curing.

Over-spray / spillages can be cleaned with warm soapy water before the onset of drying, however it may be preferable to mask some surfaces. Silane products can not be removed from glass and some other materials once dry.

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## APPLICATION

1. Surface, material and ambient temperature must be a minimum of 4°C during application.
2. Application can take place on slightly damp surfaces; however no visible signs of water should be present.
3. REPEL WB40 is supplied ready to use, some settling of the contents may occur if stored for prolonged periods. Agitate before and during use to fully disperse the active material.
4. Apply to saturation by low pressure, non-atomising spray or long haired roller. Distribution should be even and complete. The water base ensures a long 'wet' period for ease of visual inspection. Do not re-apply once the surface starts to dry out.
5. Do not force dry surfaces, as this can reduce penetration depth, further dampening of the surface is not recommended.
6. REPEL WB40 is suitable for horizontal traffic bearing surfaces. Do not traffic until completely dry as the surface may remain slippery.
7. Clean all equipment and over-spray/spill with warm soapy water before drying starts.

## COVERAGE

The absorbance of concrete is infinitely variable therefore the following are guidelines only. A test panel is recommended to determine the actual coverage required to achieve saturation.

Guidelines 4-8m/L. One coat only is required.

## PACKAGING

Supplied in ready-to-use, 20 litre containers. Other sizes available to special order.

## STORAGE

Store in a secure compound, at a temperature exceeding 4°C. DO NOT ALLOW TO FREEZE. Rotate in order not to exceed the shelf life of 12 months.

## Typical properties

Active ingredients by weight: 40%

Appearance: Milky white

VOC content (EPA Method 24). Less than 200 grammes/litre

Flash point  $\geq 93$  °C

Specific gravity: 0.95 @ 25°C

Average depth of penetration: 6mm

## HEALTH AND SAFETY

Avoid contact with eyes, skin or mouth. Wear appropriate personal protection when handling and applying REPEL WB40. Accidental spillages should be cleaned up immediately with absorbent material and cleaned with soapy water.

Treat splashes to eyes or skin immediately

If accidentally ingested, seek medical attention.

Do not vaporize; provide adequate ventilation in confined spaces.

MATERIAL SAFETY DATA SHEET AVAILABLE ON REQUEST