

Fosroc® Dekguard CP

Weather resistant, clear, water based impregnation and glaze for concrete

Uses

Dekguard CP is an environmentally friendly protective coating suitable for application to new and existing structures. It is designed to protect reinforced concrete from chloride ions, oxygen, carbon dioxide (CO₂) and other aggressive chemicals. Dekguard CP is a component of Fosroc's Renderoc system of concrete reinstatement.

Dekguard CP has a wide range of uses, e.g. multi-storey car parks, office buildings, industrial buildings, tunnels and bridges.

Dekguard CP is also the recommended primer for Dekguard Elastic / Dekguard E2000.

Advantages

- Water based
- Single component, ready for use
- Allows water vapour to escape from the structure
- Contributes to protection against carbon dioxide ingress - reduced carbonation
- Resistant to the effects of, and provides long-term protection against chloride ion ingress, sulfates and water
- Weatherproof and durable in all climatic conditions

Description

Dekguard CP is a single component weather resistant impregnation and glaze, based on acrylic copolymer and siloxane. Supplied as a clear coating, Dekguard CP provides protection against ingress and damage from water, carbon dioxide (CO₂) and other chemicals, whilst allowing water vapour to escape from the structure.

Dekguard CP is a low viscosity liquid which can be applied by brush, roller or spray.


Specification clause

The protective coating shall be Dekguard CP, a single component glaze, based on acrylic copolymer and siloxane conforming to the requirements of BS EN 1504-2 principles 1.2, 2.2 and 8.2. The total dry film thickness of the coating, applied in two coats, shall be not less than 50 microns and shall be capable of providing carbon dioxide diffusion resistance equivalent to not less than 15 metres of air. It must exhibit a Class 1 water vapour transmission resistance (Sd) and a Class 1 depth of penetration. The product application shall be in accordance with the manufacturer's written instructions to a correctly prepared substrate.



Standards compliance

Dekguard CP is classified according to EN 1504-2, with certificate no. 0370-CPD-0845 (see table), and can be used for surface protection principal 1.2(I), 2.2(C) and 8.2(C).

 0370	
Fosroc International Limited, Drayton Manor Business Park, Coleshill Road, Tamworth, Staffs, B78 3XN 10 0370-CPD-0845	
EN 1504-2 Surface protection products (impregnation)	
Water vapour permeability	Class 1
Capillary absorption and permeability to water	W < 0.1 kg/(m ² h ^{0.5})
Adhesion strength by pull off test	> 1.5 MPa
Depth of penetration	Class 1
Reaction to Fire	Euroclass B s1 d0

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Properties

Test method	Standard	EN1504-2 Requirement	Result
Water vapour permeability	EN ISO 7783-2	Class 1 (<5m)	SD = 0.05 m
Capillary absorption and permeability to water	EN 1062-3	$W < 0.1 \text{ kg}/(\text{m}^2\text{h}^{0.5})$	$0.07 \text{ kg}/(\text{m}^2\text{h}^{0.5})$
Adhesion strength	EN 1542:2000	> 1.5 MPa	1.6 MPa
Depth of penetration	EN 1766 + EN 13579 + EN 14630	Class 1 (<10mm)	5.7 mm
Reaction to fire	EN 13501-1	Euroclass B s1 d0	Euroclass B s1 d0
Colour	-	-	Transparent
Finish	-	-	Matt
Permeability to CO ₂	EN 1062-6	-	SD = 15.4 m
Solids content	EN ISO 3251	-	Approx. 17%
Drying time	-	-	2-4 hours at 20°C / 65% RH

Clarification of property values: The typical properties given above are derived from laboratory testing. Results derived from field applied samples may

Preparation

All surfaces should be dry and free from contamination such as oil, grease, loose particles, decayed matter, moss, algal growth, laitance and all traces of mould release oils and curing compounds. This is best achieved by suitable mechanical means. Where moss, algae or similar growths have occurred, treatment with a proprietary biocide should be carried out.

Prior to application, any surrounding plants, grass, joint sealants, glass windows and PVC frames should be protected.

Application

Stir before use. Where Dekguard CP is used as a primer for another Dekguard coating, apply one or two coats as required.

Where Dekguard CP is used as a self-finish, apply two coats.

The first coat should be applied by brush, roller or airless spray equipment.

After the first coat has dried (minimum of 2 hours), apply the 2nd coat (if required).

Prior to application by spray, check the prevailing wind direction to avoid overspray onto sensitive surrounding areas.

Cleaning

Dekguard CP should be removed from tools, equipment and mixers with clean water, if necessary with added soap, immediately after use. Cured material can only be removed mechanically.

Packaging and yield

Dekguard CP is supplied in 10 litre drums.

Yield: 4 m² / litre (per coat)

Limitations

The application of Dekguard CP should not commence if the temperature of the substrate is below +5°C and over +25°C. Dekguard CP should not be applied in windy conditions where early-age dust adhesion may occur, or where rain is likely within 2 hours at +20°C or within +20 hours at +5°C (up to 80% RH). At low temperatures, high humidities, drying times will increase.

Dekguard CP should not be considered for areas subjected to mechanical abrasion, e.g. traffic and foot traffic, or areas subjected to ponded water.

Porous substrates may require further coats to obtain a uniform consistency of finish.



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Storage

Dekguard CP has a shelf life of 12 months if kept in a dry store in the original, unopened packs. Store in cool, dry conditions, away from sources of heat and naked flames. If stored at high temperatures and/or high humidity conditions the shelf life may be reduced. Must be protected from frost.

Precautions

For further information see product safety data sheet.

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Important note

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