

Anticarbonation, aliphatic acrylate based protective and decorative coating for concrete and masonry

Uses

Dekguard S Standard system is suitable for use on all types of structures, to protect them from attack by acid gases, chloride ions, sulphates, oxygen and water. The product is also suitable to protect other cementitious substrate and masonry.

Advantages

- Protects exposed reinforced concrete structures from atmospheric gases - Excellent barrier to carbon dioxide, chloride ions, sulphates, oxygen and water
- Breathable - Allows water vapour to escape from the structure. But does not allow water vapour to penetrate the structure
- UV resistant - Aliphatic acrylate gives resistance to long term weathering.
- Single pack - Ease of application, can be applied with brush or airless spray.

Description

Dekguard S Standard system comprises of a single component, penetrating silane/siloxane primer and a single component aliphatic acrylate, solvent based top coat, providing resistance to aggressive agents, UV rays and rain. Dekguard S Standard system is supplied in ready to use packs and is available in a range of colours

Technical support

The company provides a technical advisory service supported by a team of specialists in the field.

Properties

Specific gravity	: 1.17 to 1.20 g/cc
Adhesive bond strength with concrete	: > 1N/mm ²
Water permeability	: Nil after 24 hours.
Resistance to chloride, sulphate ions and carbonation	: Good
UV resistance	: Good
Resistance to algae & fungi	: Good
Breathability	: Breathable
Dry Film thickness	: 100 microns in 2 coats

Application instructions

Preparation

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

It is essential to produce an unbroken coating of Dekguard S Standard system. To ensure this is achieved, surfaces containing blowholes or similar areas of pitting should first be filled using a suitable fairing coat.

Application

In order to obtain the protective properties of the Dekguard S Standard system, it is important that the correct rates of application and over coating time are observed.

	Dekguard S Standard Primer	Dekguard S Standard
Density		
Number of coat(s) recommended	1	2
Dry film thickness	N.A.	50 microns
Wet film thickness	N.A.	100 microns
Over coating time @ 30°C	2 hours	6 hours

Application should not commence if the temperature of the substrate is below 10°C.

The primer should be allowed to dry for a minimum of two hours (at 25°C) before application of Dekguard S Standard topcoat. Under no circumstances should the primer be over coated until the surface is properly dry.

All primed substrates should be treated with two coats of Dekguard S Standard system. The material should be stirred thoroughly before use. The first coat should be applied to all areas by the use of suitable brushes or rollers to achieve a uniform coating. This coat should be allowed to dry before applying the second coat. The second coat of Dekguard S Standard system should be applied exactly as detailed above.

Dekguard S Standard system can also be spray applied. Queries relating to spray application should be referred to the local Fosroc office prior to the commencement of work. For further information about application techniques, Fosroc shall be contacted.

Dekguard S Standard

Cleaning

Dekguard S Standard primer, Dekguard S Standard should be removed from tools and equipment using Nitoflor Sol, solvent.

Estimating

Packaging

Dekguard S Standard primer	5 & 20 litre cans
Dekguard S Standard top coat	5 & 20 litre cans
Nitoflor Sol, solvent	5 & 20 litre cans

Coverage

Dekguard S Standard primer	8 m ² / litre / coat
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The coverage figures given are theoretical. Due to wastage factors and the variety and nature of possible substrates, practical coverage may vary.

Storage

Shelf Life

12 months if kept in a dry store in its original sealed packing under normal warehouse conditions.

Precautions

Health & Safety instructions

Dekguard S Standard primer, Dekguard S Standard and Nitoflor

Sol should not come in contact with the skin and eyes, or be swallowed. Adequate ventilation should be ensured and inhalation of vapours should be avoided. Some people are sensitive to resins, hardeners and solvents, hence suitable protective clothing, gloves and eye protection should be worn. If working in confined areas, suitable respiratory protective equipment must be used. The use of barrier creams provide additional skin protection. In case of contact with skin, it shall be rinsed immediately with plenty of clean water and medical advice sought. If swallowed, medical attention sought immediately. Vomiting should not be induced.

Fire

Dekguard S Standard Primer, Dekguard S Standard and Nitoflor Sol are flammable, should be kept away from sources of ignition. Smoking is prohibited during handling / application of the product. In the event of fire, it shall be extinguished with CO₂ or foam. Use of water jet is not suggested.

Flash points

Dekguard S Standard Primer	38°C
Dekguard S Standard	42°C
Nitoflor Sol	33°C