

T-GUARD[®] AC

Water Based Aliphatic Acrylate Anti-carbonation Coating for Concrete



T-GUARD[®] AC system comprises of a single part water based acrylic emulsion sealer coat cum primer coat and a single part aliphatic acrylate, water based top coat. It gives resistance to aggressive agents, cracks, UV rays and rain, T-GUARD[®] AC system is supplied in ready to use packs and available in a range of colours.

Uses

T-GUARD[®] AC system is suitable for use on all types of structures which are directly exposed to sea, and to protect structures from attack by acid gases, chloride ions, sulphates, oxygen and water. The product is also suitable to protect other cementitious substrates and masonry.

Benefits

- Protects exposed reinforced concrete structures from atmospheric gases-excellent barrier to carbon dioxide, chloride ions, sulphates, oxygen and water.
- It resists efflorescence and lime blooming with good adhesion on all cement plasters. It hides surface undulations and fine surface cracks.
- UV Resistant- Aliphatic acrylate gives resistance to long term weathering.
- It contains special glass fibres to maintain anti cracking properties.

Technical Support

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

Properties

Adhesion to Concrete	Good
Water Permeability	Nil after 24 hours
Resistant to chloride, sulphate ions and carbonation	Good
UV Resistance	Good
Breathability	Breathable
Wet Film Thickness	200 microns

Instructions for Use

Preparation

All surfaces 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 T-GUARD water based 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 T-GUARD[®] AC water based system, important that the correct rates of application and over coating time are observed.

	T-GUARD[®] WBP	T-GUARD[®] AC
Number of Coat(s) recommended	1	2
Total Dry Film Thickness	NA	Min 260-289 microns
Overcoating Time at 30°C	4 hours	8 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 four hours before application of T-GUARD[®] AC 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 T-GUARD[®] AC system. The material should be stirred well 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 T-GUARD[®] AC water based system must be applied exactly as detailed above. T-GUARD[®] AC system can also be spray applied. And queries relating to spray application should be referred to the local Thermax office prior to the commencement of work. For further information

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about application techniques, Thermax shall be contacted.

Cleaning

T-GUARD[®] WBP, T-GUARD[®] AC can be removed from the tools and equipment using potable water.

Health & Safety Instructions

T-GUARD[®] WBP, and T-GUARD[®] AC products should not come in contact with the skin and eyes, or be swallowed. Adequate ventilation should be ensured and spillages 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 provides 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 shall be sought immediately. Vomiting should not be induced.

Fire

T-GUARD[®] WBP and T-GUARD[®] AC are water based systems. Both are non-flammable.

Storage

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

Packing

T-GUARD[®] WBP: 5 & 20 litre containers
T-GUARD[®] AC: 20 litre containers

Coverage

T-GUARD[®] WBP- 8-10m² /litre /coat
T-GUARD[®] AC- 5m² / litre / coat @ 200 microns WFT

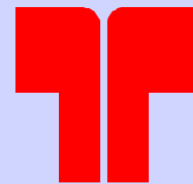
The coverage figures given are theoretical. Due to wastage factors and the variety and nature of possible substrates, practical coverages may vary.

Other Segments:

- Concrete Admixtures • Surface Treatments • Grouts & Anchors • Repair & Rehabilitation
- Protective Coatings • Industrial Flooring • Waterproofing • Sealants • Adhesives

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