



Dr. Fixit Concrete Guard WB

WATER BASED ACRYLIC ANTI CARBONATION COATING

Description

Dr. Fixit Concrete Guard WB is a water based composition of acrylic polymer, properly selected & graded inert fillers, light fast pigments & additives.

It is specially formulated to protect reinforced concrete and other masonry cementitious substrate that is directly exposed to atmospheric conditions like UV radiation, high humidity, heavy rain, industrial pollution, & carbonation.

Standard Compliance / Specification

Confirms to IRC : SP : 80 - 2008.

Typical Application

- As anti carbonation, protective coating for bridges, flyovers, subways, underpass, stadiums, exterior surface of RCC water tanks, parking areas etc.
- Concrete structures that are exposed to atmospheric conditions.
- All types of cementitious exterior masonry and plastered surfaces.

Features

- **Anti-Carbonation** - Excellent barrier to penetration & attack of carbon dioxide, water, sulphates and chloride ions.
- **Protection** - Protects the structures from adverse marine and coastal environments.
- **Adhesion** - Excellent adhesion to concrete substrate, with a high film build-up.
- **Micro organism resistance** - Excellent algae / fungal resistance.
- **Durability** - tough, flexible & durable coating.
- **Ease of application** - Single component, apply straight from the container, by brush, roller or spray.

Packing

20 litre

Method of Application

1. SURFACE PREPARATION

New concrete/ cementitious surfaces

- New concrete / plastered surfaces must be allowed to cure for at least 6- 8 weeks before coating. All surfaces must be clean, dry and free of loose material, oil grease, etc.
- Light grit blasting of concrete surface ensures better cleaning & bonding.
- Wash the concrete surface thoroughly with water to clean dirt & dust which may hamper the bonding of the coating.
- Remove entirely, any previous growth of fungus & algae, by vigorous wire brushing and cleaning with water-jet.

Previously painted surfaces

- Alkyd Paint if any, should be sanded thoroughly to remove completely all loose particles. Mechanical methods are strongly suggested.
- Exterior surface previously coated with cement paint should be wire brushed and washed with water jet thoroughly and allowed to dry.

2 PRIMING

- To produce better bonding & surface finish, apply priming coat of Dr. Fixit Concrete Guard WB by brush or spray, diluting in 1:1 proportion with water. Allow it to dry for 2-3 hrs before application of finishing coat.



3 FINISHING COAT

- Apply two neat coats of Dr. Fixit Concrete Guard WB without any dilution.
- Time interval between two coats is 6-8 hrs. depending upon the ambient temperature.

Precautions & Limitations

- Although a gap of 6-8 hours may be given between the two coats, in cold / humid climates, dry up time may be extended.
- Stir the contents well before use.
- Do not apply below 5°C.
- Do not dilute the finishing coats.

Technical Information

PROPERTIES	SPECIFICATION	RESULTS
Colour	-	As per the shade
Specific Gravity	White B - 1.40-1.50, MTB-1.33-1.43, DTB-1.35-1.45	1.37
Solid content %	White B - 67-73, MTB - 63 - 70, DTB - 66 - 72	71 %
UV Resistance	ASTM G 63	No Change
IR - Spectrum	IR Spectra	Acrylic
Adhesion with Concrete	ASTM D 4541	Min 1.3 Mpa
Dry Film thickness for the system 1 coat priming & 2 coats finishing	-	225-250 microns
Diffusion Resistance against carbon Dioxide	DIN 53122	Passes
Diffusion Resistance against Water vapour	DIN 52615	Equivalent air layer thickness $S_d H_2O$: 2.7 m
Waterproofing	-	% Reduction in Flux is 93%
Re-coatability	-	6 to 8 hrs
Klopfer criterion for an effective anti carbonation coating is $R > 50$ m		

"Available in Special White, Special Green, Silver Grey, Cement Grey and Steel Grey shades. The characteristics of the product remains same irrespective of shade selected".

Coverage

Primercoat (1:1 dil) : 10.00 sqm per litre per coat

Finishing coat (undiluted) : 4.00 sqm per litre per 2 coats

*Coverage may vary as per the nature & texture of substrate.

Shelf Life

- Shelf life is 24 months from the date of manufacturing in sealed container.
- Store under cool & dry area.

Health & Safety

- As with all chemical products, caution should always be exercised. Protective clothing's, such as gloves and goggles, should be worn.
- Treat any contact to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting but call for medical assistance immediately.
- Ensure the pack is available for the medical attendant to examine any relevant instructions and contents details.
- Reseal all containers after use and ensure product is stored as instructed.
- Do not inhale.
- Store away from sunlight.

Other Products Categories available

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