



## PRODUCT DESCRIPTION

ZURACOAT system comprises of a single component, penetrating silane / silaxone primer and a single component pigmented coating, both ready for immediate site use. The primer, ZURACOAT primer is supplied as a clear liquid and is based on a silane /silaxone blend dissolved in a penetrating organic carrier. The primer is reactive and capable of producing a chemically bound hydrophobic barrier, thus inhibiting the passage of water and waterborne contaminants. ZURACOAT is aliphatic acrylate, solvent based protective coating, providing outstanding resistance to aggressive agents, UV light and rain. It is available in a selected range of colours.

## USES

ZURACOAT To protect atmospherically exposed reinforced concrete structures from attack by acids, gases, chloride ions, sulphates, oxygen and water. The product is also suitable to protect other cementitious substrate and masonry. ZURACOAT is suitable for use on all types of structures, especially those in aggressive marine and coastal environments.

## ADVANTAGES

- ▶ Excellent barrier to carbon dioxide, chloride ions, sulphates, oxygen and water
- ▶ Allows water vapour to escape from the structure
- ▶ Highly UV resistant aliphatic acrylate gives exceptional resistance to the effects of long term weathering.
- ▶ Highly durable in all climatic conditions.
- ▶ Selected range of decorative colours.
- ▶ Crack bridging ability.
- ▶ Anti dust pick up property.

## TECHNICAL DATA

| Properties  | ZURACOAT                                      | Control Concrete |
|---|---|------------------|
| Sp. Gravity   | 1.2-1.25                                      |                  |
| Percentage water Absorption after 24 hours                | Nil   | 1.02             |
| Permeability as per BS:1881(ml/m <sup>2</sup> /s) after   |   |                  |
| 2 Hours   | Nil   | –                |
| 6 Hours   | Nil   | 9.0              |
| 24 Hours  | Nil   | 30.3             |
| 48 Hours  | 10  | 52.8             |
| Depth of carbonation in mm (Accelerated carbonation test) |   |                  |
| 2 Hours   | Nil   | 1.0              |
| 4 Hours   | Nil   | 3.0              |
| 6 Hours   | Nil   | 5.0              |
| 12 Hours  | Nil   | 7.0              |
| 24 Hours  | Nil   | 8.0              |
| Depth of chloride penetration in mm                       |   |                  |
| After 24 Hours  | Nil   | > 8.0            |
| 48 Hours  | Nil   | >10.0            |
| Chloride ion diffusion in mg/l                            |   |                  |
| After 24 Hours  | Nil   | >300             |
| 48 Hours  | Nil   | >1000            |
| 72 Hours  | Nil   | >2500            |
| Tensile Strength (ASTM D 638)                             | >2.5N/mm <sup>2</sup>                         |                  |
| Elongation (ASTM D 638)                                   | >4%   |                  |
| Adhesive bond strength to concrete (ASTM D4541)           | >2.5N/mm <sup>2</sup>                         |                  |
| Alkali & fungal resistance (ASTM D3273)                   | Passes  |                  |
| Breathability Test (ASTME96) Breathable                   | Breathable                                    |                  |
| Resistance to UV Radiation (ASTM D822)                    | Passes 100hrs of accelerated weathering in UV |                  |

## APPLICATION INSTRUCTIONS

### Surface 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.

# ZURACOAT

## Aliphatic Acrylic Resin Based Water Repellent Clear Coating for Exterior Exposed Surfaces

**Note:** It is not necessary to remove ZURABOND AR curing membrane prior to the application of ZURACOAT provided the adhesion to the substrate is excellent. Where application over existing sound coatings is required, trials should be conducted to ensure compatibility and retention of the bond between the underlying coating and the substrate. It is essential to produce an unbroken coating of ZURACOAT. To ensure this is achieved, surfaces containing blow holes or similar areas of pitting should first be filled using a suitable cementitious fairing coat like putty or Acrylic fairing coat like ZURACOAT PUTTY. The cementitious fairing coat should be allowed to cure for about 48 hours depending on ambient conditions before the application of ZURACOAT.

### Application

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

|                              | ZURACOAT                   | ZURACOAT Primer            |
|------------------------------|----------------------------|----------------------------|
| Number of coat(s)            | 2                          | 1                          |
| Theoretical Application rate | 0.25 litres/m <sup>2</sup> | 0.15 litres/m <sup>2</sup> |
| Wet film thickness           | Around 175 microns/coat    |                            |
| Dry film thickness           | 150 microns/coat           |                            |

Application should not commence if the temperature of the substrate is below 10°C. Any areas of glass should be masked.

Plants, grass, joint sealants, asphalt and bitumen- painted areas should be protected during application.

The primer should be applied in one or more coats until the recommended application rate of 0.4 litre per square meter has been achieved. This is best accomplished by using portable spray equipment of the knapsack type. If in doubt about the condition of the substrate the local PROZURA office should be consulted. The primer should be allowed to dry for a minimum of two hours (at 25°C) before application of ZURACOAT. Under no circumstances should the primer be over-coated until the surface is properly dry. ZURACOAT may be applied by the use of suitable brushes or rollers. Queries relating to spray application should be referred to the local PROZURA office prior to the commencement of work.

All primed substrates should be treated with two coats of ZURACOAT. 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 with wet film thickness not less than 100 microns. This coat should be allowed to dry before continuing. The second coat of ZURACOAT should be applied exactly as detailed above, again achieving a wet film thickness not less than 100 microns.

### CLEANING

Cementitious fairing coat should be removed from tools and equipment with clean water immediately after use. ZURACOAT Primer and ZURACOAT should be removed from tools and equipment using thinners.

### PACKAGING

20L Pack

### SHELF LIFE

ZURACOAT is recommended to be best before 1 year from the date of manufacturing in packed condition.

### HEALTH & SAFETY

Inflammable. Smoking is prohibited during handling of product. Keep away from any source of ignition. Ensure proper ventilation and inhalation of vapours should be avoided. Use air circulator in a badly ventilated / confined area. Direct contact with skin should be avoided.

Hence, suitable gloves and goggles are recommended. In case of direct contact with naked skin, remove the material immediately with soap and lukewarm water or a suitable remover. In case of accidental eye contamination, rinse several times with clean water and immediately contact ophthalmologist.

**Important:** It is the Customer's responsibility to satisfy themselves by checking with the Company whether the information is still current at the time of use. The customer must be satisfied that the product is suitable for the use intended. All products comply with the properties shown on current Technical Literatures. However, **Prozura Construction Chemicals Pvt. Ltd.** does not warranty or guarantee the installation of the products as it does not have any control over installation or end use of the product. All information and particularly the recommendation relating to application and end use are given in good faith.



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