

## 1K Acrylic Based Anti-Carbonation Protective Coating

### DESCRIPTION

**TIKI PROTECT AC** is single component ready to use water based (solvent free) Acrylic polymer based breathable Anti-Carbonation protective coating for protecting exposed faces of reinforced & pre-stressed concrete super structure, sub-structures and masonry from aggressive action of atmospheric carbon-dioxide, chloride ions and other deleterious elements.

**TIKI PROTECT AC** has excellent anti-carbonation and water vapor diffusion property allowing the structure to breathe and hence does not undergo rupturing due to vapor pressure.

### ADVANTAGES

- Protects concrete from carbonation and chloride attack.
- Water vapour permeable and breathable - allows the moisture in the concrete surface to escape without bubbling or debonding.
- Excellent adhesion to the substrate.
- Resists yellowing under ultraviolet exposure.
- Suitable for application on both damp & dry surface
- Environmentally friendly (solvent free).
- Seals concrete surfaces by impregnating surface pores – reduces tendency of concrete to dirt pick up and contamination.
- Easy to clean-up glossy film.

### USES

For protecting new & existing concrete, and masonry surfaces from carbonation and chloride attacks::

- Bridges and Flyovers.
- R.C.C Structures, columns, beams, walls, soffits, balconies, roof decks, balconies, and foundations
- Subways, underpasses and parking areas.
- Chimneys and silos.
- Marine structures.
- Thin concrete structures such as fins, facades, etc.

### PROPERTIES

Property	Values
Specific Gravity	>1.0
Solid Content, by Weight	≥30 %
pH	>7
Coverage (depends on substrate porosity and roughness)	5 to 8 m <sup>2</sup> /Ltr.
Drying Time	≤ 1Hour
Salt Spray Resistance, 500 Hours	Passes
Alkali Resistance, 4 Hours	Passes

### APPLICATION INSTRUCTIONS

#### CONCRETE SUBSTRATE CONDITIONS

- Age: At least 28 days
- Substrate Temperature: 10 to 35°C, at least 3°C above the Dew Point
- Relative Humidity: < 80%

#### SURFACE PREPARATION

New masonry and concrete should be at least 14 days old before treatment and with moisture level in substrate below 6%.

Clean the surface using a high-pressure water jet, wire brushing, mechanical scraping, chiselling or any other suitable method. Remove oil, grease and wax contaminants.

Cement laitance, loose particles, mould release agents, cured membranes, algae, loose or flaking paintwork must be removed. Fill surface irregularities with the appropriate product.

Do not apply over bleed water or free standing water.

The contents of the pail should be thoroughly mixed with a mechanical mixer to ensure product is completely homogenized before application. Prolonged storage may induce slight sedimentation and / or separation that must be re-homogenized..

## PRIMING

**TIKI PROTECT AC** has excellent adhesion to most types of concrete substrates without use of primers

Priming is recommended on porous substrates. Dilute 2 Parts of **TIKI PROTECT AC** with 1 Part of clean water by volume and apply by brush, roller or airless spray.

Apply primer @ 6 to 8 m<sup>2</sup>/Ltr., and allow to dry.

## APPLICATION

Over the dry primed surface, apply **TIKI PROTECT AC** with brush, roller, or airless spray @ 5 to 8 m<sup>2</sup>/Ltr., per 1 coat or 2 coat (depending upon the required thickness and surface texture) and allow to dry.

The application should provide 100 to 200 microns dry film thickness in two coats.

Ensure that the time interval between the coats is maintained between 2 to 24 hours.

## CLEANING

Immediately after application, clean tools and equipment first with water, once dried, the cured film can only be removed mechanically.

## SUPPLY

**TIKI PROTECT AC** is supplied in 20 Ltr. drums.

## STORAGE

**TIKI PROTECT AC** must be stored above 5°C. Store under the shed & protected from extremes of temperature, heat, direct sunlight. Once opened, use as soon as possible. The shelf life is 6 months in sealed unopened container.

## SAFETY PRECAUTIONS

As with all chemical products, care should be taken during use and storage of **TIKI PROTECT AC**. Avoid contact with skin, eyes, mouth and food. For further detail, refer to Material Safety Data Sheet.

**VERSION: R1, 202006**

**Disclaimer:** The technical information, and, in particular, the recommendations relating to the application and end-use of Tiki Tar Danosa (TIKIDAN) products, are given in good faith based on TIKIDAN's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with TIKIDAN's recommendations. The information herein is of a general nature and no assumption can be made as to a product's suitability for a particular use or application and no warranty in respect of merchantability or of fitness for a particular purpose can be inferred from this information. The user alone is fully responsible for the product's suitability for the intended application and purpose. TIKIDAN reserves the right to change the properties of its products.

**Note:** Field service where provided does not constitute supervisory responsibility. Suggestions made by TIKIDAN either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not TIKIDAN, are responsible for carrying out procedures appropriate to a specific application. TIKIDAN reserves the right to amend the composition of its material and consequently their prices, without prior notice. For this reason, all orders will be accepted only in accordance with the conditions and technical specifications in force at the date of order. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

## TIKITAR DANOSA (INDIA) PRIVATE LIMITED

Tiki Tar Estate, Village Road, Bhandup (W), Mumbai - 400 078,  
Maharashtra, India. T: +91 22 4126 6699  
E: [info@tikidan.in](mailto:info@tikidan.in) | W: [www.tikidan.in](http://www.tikidan.in)

