

CRES® GUARD AC 101

Acrylic aliphatic protective and anti carbonation coating



CRES® GUARD AC 101 is an acrylic aliphatic based protective and anti carbonation coating for reinforced substrate and masonry surfaces. It consists of a single component pigmented coating ready for immediate site uses. **CRES® GUARD AC 101** has excellent crack bridging properties, yet provides a smooth protective, decorative coating for substrate surfaces. For effective anti-carbonation protection a two-coat treatment is recommended after the application of the silane siloxane based impregnating primer.

USES

- Used as a protective coating for exposed substrate structures such as bridge decks, tunnels, reservoirs, reinforced fill panels, marine and coastal structures from chloride ions, sulphates, carbon dioxide and water.
- Used to protect other cementitious and masonry substrates from aggressive marine and coastal environment.
- Typical application includes:
 - Bridge abutments.
 - Precast Units
 - Reservoirs
 - Cladding
 - Where a high external tough coating is required.

FEATURES

- Highly durable.
- Excellent flexural and elastomeric properties.
- Excellent crack bridging properties
- High UV resistance and resistance to long term weathering effects.
- Excellent barrier to various chemicals like CO₂, chloride ions, sulphates, oxygen, water and other aggressive contaminants.
- Protective and decorative coating.

SURFACE PREPARATION

Prior to application of **CRES® GUARD AC 101**, all surfaces must be prepared properly to avoid failure. The surface shall be cleaned to remove all dust, foreign materials/loose particles or any deposits of contaminants, which could affect the bond between the original substrate and the **CRES® GUARD AC 101** system. This can be done by scarifying, grinding, water blasting, sand blasting, acid washing or any other approved method.

APPLICATION

Apply a penetrative primer coat of **CRES® PROTECT REP 100** to the prepared dry surface. This will impregnate the surface and form an impervious



TECHNICAL PROPERTIES

Description	Value	Standard
Colour	White	-
Specific Gravity	1.15(±0.05)	ASTM D1475
Reduce in Chloride ion penetration, %	97.0	-
Reduce in water absorption, %	> 82	-
CO ₂ diffusion resistance	Resistant	-
Adhesion Strength, N/mm ²	> 1.5	ASTM D4541
UV Resistance	Excellent	ASTM D4541
Application Temperature, °C	5 to 45	-
Service Temperature, °C	-5 to 70	-

All values given are subject to 5-10% tolerance

TECHNICAL DATA SHEET

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barrier to moisture and other environmental contaminants. For best results apply the primer @ 4-5 m²/L/coat. Depending on the porosity and nature of the substrate a second coat is recommended to be given after the first coat has dried off completely. Stir the contents of the **CRES® GUARD AC 101** pail thoroughly before use. The first coat of **CRES® GUARD AC 101** is to be applied on the dry primer at the rate of 2.5 m²/L for 200 microns D.F.T. the coating can be applied with a brush, roller or an airless spray. Apply the second coat at right angles to the first coat at the same rate. The second coat is to be applied only after the first is completely dry.

Curing

Allow the coating to cure for a period of 7 days to achieve its full properties

COVERAGE

The rate of application is 2.5 m²/L/ coat for 200μ D.F.T

CLEANING

Clean all tools with water after use. Hardened materials can be removed mechanically only.

PACKAGING

CRES® GUARD AC 101 is supplied in 20 kg plastic pail.

STORAGE

The drums & cans must be stored in a covered area, away from direct sunlight and protected from extreme temperature.

SHELF LIFE

Keep away from direct sunlight and store under normal warehouse conditions. Container must be tightly closed. Shelf life of this product is 12 months from the date of manufacturing.

HEALTH & SAFETY

As with all construction chemical products caution should always be exercised. Protective clothing such as goggles should be worn. Treat any splashes to the skins or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

Product Disclaimer:

Kanz chemical Ind. LLC products are guaranteed against defective materials and are sold subject to standard terms and condition of sale, copies of which are available on request which are reasonable. All recommendations regarding the use of product are made without guarantee since the conditions of use are beyond the company's direct control. It is the customer's responsibility to ensure each product is fit for the purpose for which they intend to use it. Furthermore the specifications and description herein cannot be used to void a contract.

*Refer material safety data sheet (MSDS) for further information.