CONGUARD AC

Elastomeric anti-carbonation protective coating



DESCRIPTION

CONGUARD AC is a single component, high performance elastomeric protective and decorative coating, based on special acrylic polymers with a penetrating acrylic modified silane primer, designed to protect exposed reinforced concrete structures from chloride ions, carbon dioxide, acid gases, water, salts and extreme weathering.

USAGES

- To protect atmospherically exposed reinforced concrete structures from attack by acid gases, chloride ions, oxygen and water, where there is a danger of subsequent cracks appearing within the substrate
- Suitable to protect all types of structures and cement-based substrates in aggressive marine / coastal environments

ADVANTAGES

- True elastomeric coating with excellent elongation and recovery properties which are maintained at subzero temperature
- Excellent barrier to carbon dioxide, chloride ions, oxygen and water, which makes it suitable for car parks & car tunnels
- **UV-resistant**
- Water-based
- Available in various colors upon request.
- Protects new and existing concrete against weathering

TECHNICAL DATA

CONGUARD AC	Typical values	USAGE INSTRUCTIONS
Appearance	Colored liquid	1. Surface preparation
Solid Content	70%	Concrete surfaces particularly if new; cured with a maximum residual relative I
Specific gravity @25°C	0.88	75%., clean and free from contamination grease, organic growth, release ager compounds.
Chloride Ion Diffusivity	NIL	Prepare concrete surfaces preferably
Water Vapor Transmission	50 kg/m²/24h	methods such as angle grinding to re curing compounds and other loose mater mechanical key for PIOPRIME AC .
Water Sorptivity	0.006 mm/min1/2	After preparation, fill all blow holes imperfections using PIOREP or PIOMORTA recommendation.
Tear Resistance	13 Pa	recommendation.
CO² Diffusion Resistance	8.25x10-7 cm ² s-1	2. Priming
Chemical Resistance	Fuel range, sewage water	Prior to the application of CONGUARD prepared surface using PIOPRIME AC .
	water	Apply PIOPRIME AC using a brush, roller knap-sack sprayer to the prepared concre

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should be fully humidity (RH) of such as dust, oil, ents and curing

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es and surface **AR** ranges as per

AC, prime the

r or low pressure crete surface at a rate of 4-5 m² per liter. Allow the primer to become dry before applying CONGUARD AC. This is typically 30-90 minutes depending on temperature condition.

A second priming coat may be required if the substrate is particularly porous, in that case, re-prime within 18 hours post previous coat.



STORAGE & SHELF LIFE

months.

Keep CONGUARD AC in dry and shaded place of a

temperature range 10 - 35°C, shelf life of the material is 12-

3. Mixing

Stir the material thoroughly to mix any solid materials that may have settled at the bottom of the packaging, until a homogenous consistency is achieved.

CONGUARD AC Coverage CONGUARD AC 5-6 m²/150-215µm

4. Application

A minimum of 2 coats of ${f CONGUARD}$ AC are recommended.

Apply the first coat of **CONGUARD AC** using brush or roller in a continuous uniform way to the primed concrete surface, then apply the second coat allowing the first one to dry for at least 12 hours.

5. Curing

No curing required for CONGUARD AC.

PACKAGING

CONGUARD AC is supplied in 20 liters pail.

HEALTH & SAFETY

Before applying **CONGUARD AC**, all safety protections should be worn during application, such as safety googles and rubber gloves to avoid any harmful accidents.

If **CONGUARD AC** is splashed to skin, it must be washed off by water and soap at once, and if to the eyes seek medical attention immediately.

TECHNICAL SERVICE

The technical service department of Arkaz is available to assist in the correct and best use of our products, these resources and advice are at your disposal entirely without obligation.

Please contact:

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