

PRODUCT NAME
ACROTEL-AC
Anti-Carbonation Masonry Paint



MANUFACTURER

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FEATURES

- Excellent long-lasting barrier effect against
- Low odor and V.O.C. (Volatile Organic Compounds) CO₂ & other aggressive agents (SO₂...)
- Anti-carbonation properties: Air equivalent thickness: 394 meter and Concrete equivalent thickness: 1 meter
- Excellent water and alkaline resistance
- Excellent resistance to saponification, caused by alkaline substrates
- Fast dry and early water resistance
- Excellent adhesion on difficult substrates.

PRODUCT DESCRIPTION

Basic Use

ACROTEL-AC is a high performance barrier coat and block filler for concrete surfaces and structure and masonry surface.

ACROTEL-AC is a single component high performance Acrylic concrete paint and block filler. **ACROTEL-AC** is specially formulated to be used as a one-coat system on concrete & masonry substrates for exterior applications. The main function of **ACROTEL-AC** is to protect steel-reinforced concrete against CO₂ (carbonation).

At one time steel-reinforced concrete was considered to be something that would last a long time and did not require protection. However, the passage of time revealed (beginning in the 1970's) that structures built of reinforced concrete were starting to deteriorate quite rapidly, mainly due to carbonation of the concrete. When reinforced concrete is new, the high alkalinity of concrete protects the steel reinforcement because steel does not corrode at high pH (it is covered with protective oxide film). Over time, CO₂ in the atmosphere neutralizes the concrete. When pH falls below 7.0 the concrete is no longer able to protect the steel rebar, thus the steel starts to rust. Rust occupies more volume than steel, so the inevitable result of prolonged carbonation is that the concrete begins to deteriorate because of the high pressure caused by the build up of rust.

Consequently overall mechanical performance of structure is severely weakened.

COMPOSITION AND MATERIALS:

ACROTE-AC is a single component Acrylic Copolymer **ACROTEL-AC** Anti-carbonation paint is a carefully formulated coating that protects concrete from carbonation, especially in hot climates. It is available in both water-based and solvent based. Solvent base **ACROTEL-AC** is only recommended for hot, or very cold surface application, on which water-based paint is difficult to apply.

HEALTH AND SAFETY:

ACROTEL-AC is low toxicity but flammable. However, we recommend the use of rubber gloves. Avoid contact with eyes and prolonged contact with skin. If contact occurs, flush immediately with water. Seek medical advice if irritation occurs. Harmful if swallowed, do not induce vomiting. Drink 1-2 glasses of water or milk. Keep product out of reach of children. Consult MSDS for additional information

PACKAGING:

ACROTEL-AC is packaged in 1 gal, and 5 gal pails.

Storage and Transportation

ACROTEL-AC when stored in a dry, cool area has a shelf-life of 12 months. **Keep from open flame.**

TECHNICAL DATA

Colour	pigmented
Resin Type	Acrylic Copolymer
Percent Solids	32 +/- 2% (vol.)
Sheen	Flat
Coverage	8 M ² /liter @ 120 microns WFT (36 DFT) 320 Ft ² /US @ 5 mil WFT (1.5 DFT)
Drying Time @ 75°F (23°C), 55% RH	1 hr – to touch 2hrs – recoat
Reducer/Cleanup	Mineral Spirit
Viscosity 23°C (75°F)	8-12 CP
V.O.C.	554 grams/liter (4.6 lb/gal)
Specific Gravity	1.15+/- 0.05 (Grams/Liter) 9.1 +/- 0.1 (lbs./gal)

SURFACE PREPARATION:

All surfaces to be coated must be free of dirt, oil, and any other contaminants that may prevent proper adhesion. For new concrete, wait 28 days to cure and then apply high quality acrylic primer, before application of **ACROTEL-AC**.

Sealed Surface:

If concrete has been sealed with sealer, try to remove it with a power washer. Sealed concrete is often glossy in appearance.

Old Paint: If the concrete has been previously painted, cut the old paint with an X shape and tape it down firmly using duct tape. Pull firmly on the tape to remove. If 25% or more of the paint is removed with the tape, painted surface is not bonded properly. Remove old paint using a power washer or shot blast. If less than 25% of the paint comes off, move onto the next step.

CLEANING

Use a good quality detergent and dilute with 1 liter (1/4 gallon) of water and mix thoroughly. Wash entire surface with detergent solution. A power washer is a good choice for this application. Let the soap solution stand for 5 minutes prior rinsing. Rinse the entire surface twice with clean water using a power washer or water hose. Rub your fingers on the surface. If you see any dust or powder on your fingers repeat rinsing and scrubbing until no residue remains. Allow the surface to dry completely. Usually this will take approximately 1-2 hours depending on temperature and humidity.

Note: The wall must be completely cleaned, rinsed and dried; otherwise the paint may not bond properly to the surface.

APPLICATION

Use a good quality synthetic brush, roller or airless spray to apply an even coat of **ACROTEL-AC**. Maintain a wet edge to prevent overlap marks and gloss differences **ACROTEL-AC** is designed as a one-coat system; therefore a one-coat application is sufficient to cover the entire surface.

Clean up

Wash all tools and equipment immediately with mineral spirits.

MAINTENANCE None required.

WARRANTY

A limited twelve (12) month Material Replacement Warranty is available. For complete details contact Trendco Head Office.

TECHNICAL SERVICE

For advice on suitability of **ACROTEL-AC** for a specific application, specification assistance and application instructions, contact Technical Service: 905-791-3378

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