

CODE: AC-701

**PRODUCT NAME:**

**Modified Acrylic Emulsion Coating**

**DESCRIPTION:**

AC-701 is a waterborne alkali resistant, acrylic topcoat in ant carbonation system. The product is water-repellent, but allows water vapor from the substrate to pass through the paint film.

AC-701 is a single pack, ready to use, water based, flexible acrylic polymer for use as a high water vapour permeability Topcoat.

AC-701 is applied over fire resistant coating that protects steel and concrete substrates.

Because of its high water vapour permeability, AC-701 does not blister when used on damp vermiculite and Portland cement – based substrates.

AC-701 protects against ingress from wash down water, chemical spills, and rainfall and sprinkler deluge systems. It is flexible, flame retardant, mould resistant, and helps reduce the carbonation rate of cement based products.

Applications within the oil and gas, petrochemical and power industries will benefit from the use of AC – 701 Topcoat.

**TECHNICAL DATA:**

Binder	Acrylic Emulsion latex
Pigment	TIO2
Finish	Flat-semi flat
Shade	White, Grey,Green,Black,Blue
Substrate	Cleaned chalk or, Concrete surfaces ,or (AC-700)
Volume solids	53 ± 3%
Typical dry film thickness	30-100 Microns per one coat
Number of coat	One or two
Specific gravity	1.4 ± 0.1 Kg/Lit
Theoretical spreading rate - one coat ( at 100 microns)	5.3M <sup>2</sup> /Lit
Application method	Air spray , brush , roller
Thinner / Cleaner	Water
Weight of added water	Max 10-40 %
Packing	20 kg
Shelf life	6 Months



## Drying Time

Temp	Touch dry	Hard dry	Over coating	
			Min	Max
15°C	90 minutes	4 hours	4 hours	-
25°C	1 hours	2 hours	2 hours	-
40°C	30 minutes	1 hours	1 hours	-

**Note:** Drying times are dependent on applied film thickness; all data in this catalogue are reported at recommended DFT.

## RECOMMENDED USE:

As A Topcoat for Interior and Exterior of Building.

## Outstanding Characteristics:

- Excellent water resistance
- Good appearance
- Good flexibility
- Good wash ability
- Good U.V resistance
- Good weather resistance

## Surface Preparation:

The surface must be clean, dry and free from any contamination such as rust, grease, salt and loose paint

## Application Method:

This material is a one component coating and should always be mixed thoroughly with a power agitator before application. Stir during application to maintain uniformity of material.

1. Flush all equipment with water before use.
2. Stir the product thoroughly with a power mixer.
3. For conventional spray, the viscosity should be 30 sec.
4. Apply a wet coat by parallel passes. Overlap each pass 50% to avoid bare areas, pinholes or holidays.
5. Spray with standard airless spray equipment having a 30:1 or higher pump ratio and a tip with a 0.015-0.017inch orifice, or with conventional spray with a 1.5-1.8 mm orifice to obtain an even wet coat with minimum over spray.
6. Random pinholes, holidays and small damaged or bare areas can be touched up by brush when the film is semi dry to touch. Larger areas should be replayed.
7. in confined areas ventilate with clean air during application.
8. Clean all equipment with water immediately after use.

Air Spray	<b>Application Equipments:</b> Nozzle orifice 0.015'' -0.017'' Nozzle pressure:150 Bar (2200 psi)
Brush	Typically 50 mic can be achieved.
Roller	Typically 70 mic can be achieved.

**Flush Equipment with recommended Cleaner before and after use.**

## ENVIRONMENTAL CONDITIONS:

- To prevent moisture condensation during application, surface temperature must be at least 3 °C above the dew point.
- Never apply coatings under reverse environmental condition.
- In hot climate, material temperature should be 20 to 25 °C prior to mixing.
- -For satisfactory cure, air and surface temperature must be above 10 °C
- Paint shall not be applied when wind speed is in excess of 7 m/s

Air temperature	10 to 40 °C
Surface temperature	10 to 50 °C
Material temperature	15 to 40 °C
Relative humidity	Max 80 %

## HEALTH AND SAFETY:

The products should be kept in a cool and well ventilated place protected from heat and direct sunlight. Containers must be kept tightly closed.

Handle with care. Stir well before use.

Under License



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