

SUPERIOR ANTI-CARBONATION PAINT

Product code: PW3612

Composition and Application Field

EVI Superior Anti-Carbonation Paints is a single component Acrylic emulsion based paint, contains insert pigment and fillers to meet the requirements of anti-carbonation and elastomeric waterproofing with durable protection to concrete or concrete structures. Applied as a liquid, it cures to form a flexible membrane, which prevents chloride ion ingress. Properly applied coating has excellent U.V. & Weather resistances properties. It provides good mechanical and abrasion resistances to the exterior or interior surfaces. It contains anti-fungal, antibacterial additives, which provides maximum protection to dry film.

Use

EVI Superior Anti-Carbonation Paints is suitable, as seamless and elastomeric water proof coating for wood, concrete, asbestos, galvanized sheets, tiles, etc. It can also be used for concrete repairs, interior/exterior commercial & industrial buildings, flats roofs and variety of other substrates, to have abrasion & chemical resistances. Mostly suitable for curbstone applications, bridges, car parking areas, since it has excellent anti-carbonation & chloride ion-ingress resistance.

Specification

Finish, Dry Film	: Smooth/ Satin
Colour, Dry Film	: As per EVI shade card
Specific gravity	: 1.25 ± 0.02
Volume Solids (ASTM D2697)	: 50 ± 2%
Theoretical Spreading	: 7.0 – 5.5 m ² /Ltr.
Recommended DFT (Dry Film)	: 80 – 100 Microns/Coat
Recommended WFT (Wet Film)	: 145 – 185 Microns/Coat
Flash Point	: Water Base

Drying Time

Drying time @ 30°C (Temperature, humidity, air movement, film thickness and number of coats all affect the drying time.)

Touch Dry	: 1 hour
Dry to Recoat	: 10 – 12 hours
Full Dry	: 24 hours

Advantage

EVI Protect Seal

The dry film has excellent crack bridging property and protection from the penetration of water borne salt and atmospheric gases. Superior anti carbonation property,

excellent reduction in chloride ion ingress and water penetrations. As a protective coating, EVI Protect Seal provides excellent Ultra Violet resistance, weather resistance, moderate chemical resistance and high order of wash ability. Dry film also resists to biodegradations, at proper application and film thickness.

Surface Preparation

Before application, the surface should be sound, clean and free from oil, grease, loose particles, dust, etc. Application can be done by the recommended application methods.

Application Method

Application Method	: Roller, Brush or Spray
Cleaning / Thinning	: Water
Thinner (volume)	: 5 – 10% depend on method of application.
Conversion Spray Requirements	: Possible
Airless Spray Requirements	: Pressure: 2000 – 2500 psi
Nozzle Size	: 0.018" – 0.021"
Mixing Ratio (by volume)	: N/A
Pot life @ 30oC (100mL)	: N/A

Technical Paint System

Recommended System To be applied on prepared surface	-EVI All Weather Tex Primer or EVI Aqua Siloxane Primer or EVI Penetrating Primer Sealer	1 coat
	-EVI Superior Anticarbonation Paint (Leveling the surface if required)	2 coats
	-EVI Stucco Filler (for Interior)	2 coats
	-EVI Shield Exterior Filler (for Exterior)	2 coats

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TEST CERTIFICATION

1	Carbon Dioxide Diffusion Coefficient Test (Taylor Woodrow Technology U.K.)	<ul style="list-style-type: none"> - Carbon Dioxide Diffusion Coefficient Test (cm^2/s) : 4.50×10^{-8} - Carbon Dioxide Resistance Coefficient μ Value : 3.31×10^{-6} - R Value (equivalent air layer thickness) : 698 meters - Klopfer Criteria for Effective Anti-carbonation Coating is R value greater than 50 meters
2	Moisture Vapour Transmission Rate (Taylor Woodrow Technology U.K.)	<ul style="list-style-type: none"> - Flux (g/m^2, 34hours) : 63.40 - DH^2O (cm^2/s) : $7.83 \text{ E-}05$ - μ Value : $3.25 \text{ E}+03$ - SD (m) : 0.7
3	Reduction in Chlorine Ion Penetration (ASTM C 1202)	>95.00%
4	Tensile Strength (ASTM D 638)	Tensile strength 3 N/mm ²
5	Elongation (ASTM D 638)	217%
6	Chemical Resistance (ASTM D543:95)	Resistant to Hydraulic Oil, sewage eater, acid alkali.
7	Water Absorption	Reduction in water absorption >90%
8	Crack Bridging Capacity	0.75 mm
9	Fire Propagation Index Warrington, U.K. Test Report	Fire Propagation Index as per B.S. 476 Part 6 : 1989

Do not keep paint material near to any ignition sources. Do not put back the half or unused material back in original container, containing the supplied paint, to avoid contamination. Handle with care. Stir well before use.

Health & Safety

Generally, most of the water base paints are quite safe to handle with due precautions. As a general rule, avoid skin and eye contact by wearing overalls, gloves, goggles, and mask etc. Spillage on skin should immediately be removed by thorough washing with water and soap or suitable cleaner. Eye should be flushed with fresh water. Avoid inhalation of vapours and paint mist by wearing suitable mask. In the event of ingestion and eye contact, seek medical attention immediately. Painting must be carried out in well-ventilated area. Local safety regulations to be followed.

Storage & Shelf Life @ 30°C

Store the paint in proper storage conditions as per the local regulations. Keep the paint container in sealed condition under shed, away from direct sunlight and extreme temperatures. Storage stability can be sound up to maximum 18 months, in original sealed container.