

# RITVER SUPERIOR ANTI-CARBORATION PAINT

PRODUCT NO. PW3612

## PRODUCT DESCRIPTION

Ritver Superior Anti-Carbonation Paints is a single component Acrylic emulsion based paint, contains inert 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.

## RECOMMENDED USES

Ritver 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.

## TECHNICAL DATA

Colour, Dry Film	: As per Ritver shade card
Finish, Dry Film	: Smooth / Satin
Volume Solids (ASTM D2697)	: 55 ± 2%
Specific Gravity	: 1.30 ± 0.05
Theoretical Spreading	: 7.0 – 5.5 M <sup>2</sup> /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

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Date Revised: 01<sup>st</sup> Jan 2012

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## ADVANTAGES

RITVER 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, Ritver Protect Seal provides excellent Ultra Violet resistance, weather resistance, moderate chemical resistance and high order of watability. Dry film also resists to biodegradations, at proper application and film thickness.
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## APPLICATION INSTRUCTION

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.
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## APPLICATION DATA

APPLICATION METHOD	Roller, Brush or Spray
CLEANING/THINNING	Water
THINNER (VOLUME)	5 - 10% depends on method of application
CONV. SPRAY REQUIREMENTS	Possible
AIRLESS SPRAY REQUIREMENTS	Pressure : 2000 - 2500 psi
NOZZLE SIZE	0.018" - 0.021"
MIXING RATION (BY VOLUME)	NA
POR LIFE @30°C (100 ml)	NA

## SYSTEM

<b>RECOMMENDED SYSTEM</b> To be applied on prepared surface.	Ritver Acrylic Primer (W.B.) (OR) : 1 coat
	Ritver Aqua Siloxane Primer (OR) : 1 coat
	Ritver Penetrating Primer Sealer : 1 coat
	Ritver Anti-Carbonation Paint : 2 coats
	Levelling the surface: (If required)
	Ritver Stucco Filler (For interior) : 2 coats
	Ritver Shield Exterior Filler (For exterior) : 2 coats

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### TEST CERTIFICATE

1.	Carbon Dioxide Diffusion Coefficient Test (Taylor Woodrow Technology U.K.)	Carbon dioxide diffusion coefficient test ( $\text{cm}^2\text{S}^{-1}$ ): $4.50 \times 10^{-8}$ Carbon dioxide resistance coefficient $\mu$ -value: $3.31 \times 10^6$ R value (equivalent air layer thickness): 698 meters Klopfer criteria for effective anticarbonation coating is R value greater than 50 meters.
2.	Moisture Vapour Transmission Rate (Tylor Woodrow Technology U.K.)	Flux ( $\text{g}/\text{m}^2 \cdot 34 \text{ hours}$ ) : 63.40 $\text{DH}_2\text{O}$ ( $\text{cm}^2\text{S}^{-1}$ ) : 7.83 E-05 $\mu$ Value : 3.25 E+03 SD (m) : 0.7
3.	Reduction in Chloride Ion Penetration (ASTM C 1202)	> 95.00%
4.	Tensile strenght (ASTM D 638)	Tensile strength 3 N/ $\text{mm}^2$
5.	Elongation (ASTM D 638)	217%
6.	Chemical Resistance (ASTM D 543:95)	Resistant to Hydraulic oil, sewage eater, acid and alkali.
7.	Water Absorption	Reduction in water absorption > 90%
8.	Crack bridging capacity	0.75 mm
9.	Fire Propagation Index As per B.S.476:Part 6:1989 Warrington, U.K. test report	Fire Propagation Index I.

### ADDITIONAL DATA

SHELF LIFE @ 30°C	18 months, in original sealed container, with proper storage conditions.
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### HEALTH & SAFETY

SAFETY PRECAUTIONS	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.
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### STORAGE & HANDLING

STORAGE	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. 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.
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