

## AL-JAZEERA ANTI-CARBONATION PAINT (WB)

JA-15016

### DESCRIPTION:

"Al-Jazeera Anti-carbonation (WB) " is a waterborne, acrylic emulsion based on alkali resistant anti-carbonation top coat. The product allows water vapour from the substrate to pass through the paint film and posses water repellent property.

### RECOMMENDED USE:

Recommended as a self priming top coat on concrete, cement and other masonry substrates for car parks and bridges for interior and exterior application.

### CHARACTERISTICS:

"Al-Jazeera Anti-carbonation Paint (WB) " has the following features:

- Excellent anti carbonation property.
- Water vapour permeable.
- Excellent resistance to moisture and salts.
- Long lasting corrosion protection to reinforce steel in concrete.
- Concrete cracks prevention.
- Excellent adhesion to the substrate.
- Good scratch resistance and water repellency.
- Smooth and flat finish.

### CERTIFICATES:

Tested and approved by Dortmund University of Technology in Germany.

### PHYSICAL CONSTANTS:

Finish:	Flat
Colour:	White and other colours as per Aljazeera catalogue
Volume Solid:	53 %, ASTM D2697
Viscosity:	90 KU @ 25°C, ASTM D562
Specific Gravity:	1.40, ASTM D1475
D.F.T:	75 µm each coat.
Theoretically Spreading Rate :	7.1 m <sup>2</sup> / lit (283.4 ft <sup>2</sup> / US gallon). Depending on the thickness of the layer,(to avoid waste , be sure to buy the right amount of the paint for the surface area required).
Sagging:	200 µm, ASTM D4400
Freeze-Thaw Stability:	Pass, 3 cycles, ASTM D2243
Heat Stability:	Pass, 49 days, at 50°C.

### TEST DATA\*

Carbon dioxide diffusion Resistance	
µ - value CO <sub>2</sub> (diffusion coefficient) =	758000
R (equivalent air thickness) =	200m @ 264 µm
Sc(equivalent concrete thickness)=	0.66 m
Water Vapour Diffusion Resistance:	
µ - value H <sub>2</sub> O (diffusion coefficient) =	1120
Sd (equivalent air thickness) =	0.31m @ 277 µm

### SURFACE PREPARATION:

**New surfaces**  
-All new surfaces must be cured at least for 30 days prior to application of the primer.

- The surface must be treated by removing all forms release and protrusions to get a suitable surface for application.

**For previously painted surfaces:**

- Remove old paint from surfaces completely.
- Make sure that the surface is clean , dry , free from dust, oil, grease, salt and mold.

-Fill the holes and cracks with suitable fillers "Al-Jazeera Crack Filler" prior to application of the primer.

### APPLICATION GUIDE:

1. The surface must be removed from dust , grease, oil and other contaminants completely.
2. Surface temperature required during application must not be less than 10°C; the surface moisture should not exceed 8% and the relative humidity at work place not to exceed 70%.
3. Maximum pH of 9.
4. Paint should be stirred carefully before use.
5. A suitable quantity of water can be added to get reasonable viscosity for application.
6. Do not apply on wet and moistened surfaces until get completely dry.
7. Do not apply the next coat unless the previous one is fully dry. Minimum recoating interval time should be given between the two coats.
8. Adequate ventilation should be provided during drying time.

### APPLICATION TOOLS:

- Airless spray: Thor  
Nozzle orifice: 0.021- 0.023  
Nozzle pressure : 20 MPa ( 2900psi)
- Spray angle : 40 - 60°
- Spray gun: Recommended Nozzle size: (1.5 – 1.8) mm.
- Nozzle pressure : 23- Bar( 2900psi)
- Roller: Recommended type: Soft and smooth woolen roller.
- Brush: General / Normal type.

### THINNER:

Recommended thinner is tap water

### THINNING RATIO:

- (0 - 1) by volume for airless spray applications.
- (15 - 25) % by volume for Spray Gun applications.
- (10 - 15) by volume for roller & brush applications.
- \* depends on the weather condition at work place.

### PAINTING SYSTEM:

Apply two coats of "Al-Jazeera Anti-carbonation Paint W/B ".

### DRYING TIME:

Surface dry	30 min.
Hard dry	4 hours
Dry to recoat,	4hours. (minimum)
Dry to recoat,	----- (maximum)
All above results according to ASTM D5895@ 25°C.	

### CLEANING TOOLS:

Tap water

### PACKING:

US Gallons  
Drum 18 Ltr.

### SHELF LIFE:

In sealed container: 12 months in a dry, cool, and well-ventilated place.

\*Test report available on request.

Disclaimer

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To the best of our knowledge the technical data listed herein is true and accurate up to publication date and is subject to change without prior notice. User must contact Al-Jazeera Paints Company to verify of any modifications before specifying or ordering the product. Thus, information given in this sheet is not intended to be exhaustive and any person using the product other than the recommendations in this sheet or without reverting to our Al-Jazeera TSD, he should take his accountability in this connection.

### SAFETY PRECAUTIONS:

During application of paint, contact of liquid paint with eyes, skin, inhalation of paint mist and paint vapour, should be strongly avoided. When working with paint in in-sufficient ventilated areas, forced ventilation should be provided. For spray application system, eye, skin, respiratory protection are always recommended. Keep away from the reach of children.

For environmental safety: please donate the leftover paint and packaging to your local authorized institution for usage or recycling purpose.

Note:Wastes and empty containers should be disposed of in accordance with local regulations made under the Control of Pollution Act and the Environmental Protection Act.