



AL-JAZEERA POLYSTEEL GLOSS

Two Component Polyurethane Topcoat

DESCRIPTION:

"Al-Jazeera Polysteel Gloss" is a two-component, high quality, high gloss topcoat based on polyurethane resin for steel surfaces, providing excellent mar and UV resistance with non-yellowing property, using a superior aliphatic poly-isocyanate curing agent.

RECOMMENDED USE:

As a gloss finish top coat for exterior and interior applications on suitably primed steel surfaces.

CHARACTERISTICS:

- High gloss finish.
- Excellent gloss retention property.
- Non-yellowing.
- Excellent UV resistance.
- Excellent colour retention.
- High flexibility.
- High chemical and solvent resistance properties.

Physical Constants:

Finish: Gloss
 Colour: Al-Jazeera Color Card
 Volume Solid: 58% , ASTM D2697
 Viscosity: 78 KU (mixed paint) @25°C, ASTM D562
 Specific Gravity: 1.2 (mixed Paint) , ASTM D1475
 D.F.T: 50 µ each coat
 Theoretical
 Spreading Rate: 11.6m²/ ltr at 50 µm DFT
 Full Cured: 7 days@25°C
 VOC Values: 486 g/ ltr.

Surface Preparation:

The coated surface to be top-coated shall be dry and free of grease, oil, dust, abrasive material or any other contaminants. Grease and oil shall be removed with a suitable detergent. Salts and other contaminants shall be removed by high-pressure fresh water cleaning.

For improved adhesion, "Al-Jazeera Polysteel Gloss" should be applied when the undercoat is still tacky. On cured undercoats, adhesion will be enhanced by sweep-blasting the substrate.

APPLICATION GUIDE:

Application Condition

The product should not be applied at temperatures below 5°C. Surface temperature must be a minimum of 3°C above dew point.

Relative humidity should not exceed 85%.

In confined areas good ventilation is required during application and drying.

Application Data

Mixing ratio: By volume: Base Hardener
 4 : 1

Pot-life: 8 hours @ 25°C.

Paint System

Primers: "Al-Jazeera Epoxy Zinc Phosphate Primer", for other suitable primers, consult Al-Jazeera TSD.

Topcoats: None.

Application Method and Thinning:

THINNER: Recommended thinner is "Al-Jazeera Thinner 507".

Application Method	Airless Spray	Air Spray	Brush/Roller**
Thinning (by volume)*	(0-3)%	(20-25) %	(10-15)%
Nozzle Orifice	0.015-0.021"	1.5- 1.8 mm	N/A
Nozzle Pressure	15 MPa (2100psi)	29.0-43.5psi	N/A
Spray Angle	40-80°	50-80°	N/A

* Depends on the weather condition at work place.

** Recommended for stripe coat and small areas.

Film Thickness and Spreading Rate:

	Minimum		Maximum		Recommended	
	(µm)	mil	(µm)	mil	(µm)	mil
Dry Film Thickness (DFT)	35	1.4	100	4	50	2
Wet Film Thickness (WFT)	60	2.4	172	6.9	86	3.45
	m ² /l	ft ² /USgal	m ² /l	ft ² /USgal	m ² /l	ft ² /US gal
Theoretical Spreading Rate	16.6	665	5.8	233	11.6	465

Drying Time and Recoating

Drying times are generally related to air circulation, temperature, film thickness and number of coats, and will be affected correspondingly.

Temperature	25°C/77°F
Relative Humidity	50%
Surface Dry	1 hour
Hard Dry	4 hours
Dry to recoat, minimum	4 hours
Dry to recoat, maximum*	-----

Note: All records given in the table are typical at: recommended film thickness, good ventilation and one coat system.

*The surface should be dry and clean prior to application. The best time to recoat is before previous coat is cured. If this time is exceeded, the surface may need to be roughened slightly.



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Handling and Safety :

- Clean up:** Use "Al-Jazeera Thinner 507" for tools cleaning and in case of spillage, absorb and dispose.
- Handling:** Handle with care. Stir very well before use.
- Health and safety:** Please read and follow the precautionary notices displayed on the container, and all caution statements on the MSDS of this product. During application of paint, contact of liquid paint with eyes, skin, inhalation of paint mist and paint vapor should be strongly avoided. For spray application systems; applicator should wear protective clothing, gloves, also eye, skin and respiratory protection are always recommended. Keep away from reach of children.
- Ventilation:** When used in enclosed areas, thorough air circulation must be used during and after application until the coating is cured. In addition, respirators must be used by all applicator.
- Caution:** This product contains flammable solvents, keep away from sparks and open flame. For information on LEL and TLV, please read the MSDS.
- 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.

Packing and Storage

- Packing:** Packed in: Base Hardener
Gallon 2.88 Ltr : 0.72 Ltr
- Storage:** Store indoors. Storage conditions are to keep the container in sealed container in a dry, cool and well-ventilated place.
- Storage temperature:** (5-42) °C / (41-108) °F.
Storage humidity: (0-95)% relative humidity.
Shelf life : 1 year at 25 °C (77 °F).

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.