

Technical Data Sheet

JAZEERA POLYSTEEL FLAT

JI-45004

Description:

A flat two-component aliphatic acrylic polyurethane topcoat paint, for protection and decoration, characterized by resistance to UV, non yellowing, very good color retention properties.

Recommended Use:

Recommended to use for exterior and interior applications as atopcoat for steel constructions and maintenance works in wide variety environments such as offshore, chemical plants and steel tanks etc, also it can be applied on concrete and cement surfaces of residential buildings and industrial constructions for protection and decoration.

Characteristics:

- Non-yellowing property.
- Very good resistance to UV.
- High flexibility.
- Very good color retention.
- High resistance to water, chemicals and solvents.
- Excellent adhesion and high durability.
- Washable with water and soft detergent.
- High abrasion resistance.
- Good dielectric property.

Physical Constants:

• Finish	Flat	
• Color	As per Jazeera color card.	
• Volume Solid	48%	ASTM D2697
• Viscosity	58 KU (mixed paint) @ 25°C	ASTM D562
• Specific Gravity	1.35 (mixed paint)	ASTM D1475
• DFT	50 µm.	
• Theoretical Spreading Rate	9.6 m ² /L @ DFT 50 µm.	
• VOC :	428 g/ L.	

Tests:

• Acid-solution resistance	Pass	ASTM D1308
----------------------------	------	------------

Surface Preparation:

-Coated Surfaces:

- Topcoat should be applied within the over coating interval time of previous compatible coat.
- Remove all visible surface deposits such as grease, oils with suitable detergent per (SSPC-SP1).
- Previous compatible coat should be clean, dry and free from damages.

Application Condition:

- As per ISO 8502-4 guidance on the estimation of the probability of condensation prior to paint application.
- Steel surface temperature should generally be at least 3 °C above the dewpoint.
 - If the relative humidity is 85 % or higher, then painting should be judged critically.

Application Data:

Mixing ratio: Base 4 : Hardener 1 (By volume)

Pot-life: 8hours @ 25°C.

Induction Time: Nil

Painting System:

steel surfaces:

- Previous coat: Epoxy, Zinc Epoxy, Epoxy mastic, Polyurethane, for other suitable primers consult Jazeera TSD.
- Topcoats: Jazeera Polysteel Flat.
- For concrete surfaces.
- Apply one or two coats of a suitable primer from Jazeera Paints, depending on the nature of the surface.
- Apply two coats of " Jazeera Polysteel Flat"

In case of texture finish, apply two coats of " Jazeera Polysteel Flat" after full dry of texture paint.

Technical Data Sheet

JAZEERA POLYSTEEL FLAT

JI-45004

Application Method And Thinning:

THINNER: Recommended thinner is "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)	73	3	208	8.3	104	4
	m ² /l	ft ² /USgal	m ² /l	ft ² /USgal	m ² /l	ft ² /US gal
Theoretical Spreading Rate	13.7	550	4.8	192.5	9.6	385

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	2 hours
Dry to recoat, minimum	6 hours
Dry to recoat, maximum*	-----
Full cure	7days

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.

Packing:

	Base	Hardener
Gallon	2.88 L	: 0.72 L
Drum	14.4 L	: 3.6 L
Drum / Tintable bsces A,B,C	13.2 L	: 3.6 L

Shelf Life & Storage:

Shelf life : 12 months @ 25 °C.

Storage: The container should be kept in sealed, dry, cool, well ventilated place and stored in accordance with national regulations.

Technical Data Sheet
JAZEERA POLYSTEEL FLAT
JI-45004

Safety Precautions:

- Clean up: Use "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. Keepaway 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.

Disclaimer:

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 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 Jazeera TSD, he should take his accountability in this connection.

As we are not capable to control the quality and the substrate's conditions as well as the factors that affect on using, or applying the product, so we never give any written or implied guarantee in these documents, but we guarantee our products to conform to Jazeera quality while we assume no responsibility for coverage, performance or injuries resulting from application. Liability "if any" is limited to replace the products mentioned above.