

Technical Data Sheet
JAZEERA POLYSTEEL SH70
JI-47011

Description:

A high quality two-component stable and non-yellowing semi-gloss topcoat paint, based acrylic aliphatic polyurethane resin and isocyanate cured resin, providing excellent UV resistance with flame spread resistance properties.

Recommended Use:

As a high performance topcoat in industrial fields for exterior and interior applications on primed steel surfaces.

Characteristics:

- High solid.
- Non-yellowing property.
- Excellent flame spread resistance.
- Excellent resistance to UV.
- Excellent color and gloss retention.
- High durability.
- Excellent resistance to chemicals and solvents.
- High resistance to scratch and abrasion.
- Meets SSPC PAINT 36 SPECIFICATION LEVEL 3.

Physical Constants:

• Finish	Semi gloss		
• Color:	As per Jazeera color card.		
• Volume Solid	70% (mixed paint)	ASTM D2697	
• Viscosity	100 KU (mixed paint)	ASTM D562	
• Specific Gravity	1.16 (mixed paint)	ASTM D1475	
• D.F.T:	75µm.		
• Theoretical Spreading Rate:	9.3 m ² /L @ D.F.T. 75 µm.		
• VOC :	300 g/l (as supplied).		

Tests:

• Flame spread resistance	Classified as class1	ASTM E84	Exova
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Surface Preparation:

- Remove all visible surface deposits such as grease, oils with suitable detergent per (SSPC-SP1).
- Remove salt and other contaminants by washing using high pressure fresh water.
- Any fabrication defects such as weld spatter, delamination, sharp edges and weld slag should be repaired prior to surface preparation.
- The surface must be prepared according to Sa 2½ (NACE No.2/SSPC-SP10).
- "Jazeera Polysteel SH70" must be applied within the over coating interval time of primer .
- Any damage areas in the primer should be prepared according to ISO 8504 and patch primed prior application of "Jazeera Polysteel SH70".

Application Condition:

- Temperature during application should be more than (5°C).
- Surface temperature: at least (3°C) above dew point.
- Relative humidity: maximum 85%.

Application Data:

Mixing ratio: By volume: Base Hardener
4 : 1

Pot-life: 3.5 hours @ 25°C.

Painting System:

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

Topcoats: Jazeera Polysteel SH70.

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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	2100-2400psi	29.0-43.5psi	N/A
• Spray Angle	40-80 ⁰	50-80 ⁰	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)	50	2	100	4	75	3
Wet Film Thickness (WFT)	75	3	140	5.6	110	4.4
	m ² /l	ft ² /USgal	m ² /l	ft ² /USgal	m ² /l	ft ² /US gal
Theoretical Spreading Rate	14	560	7	280	9.3	375

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	2 hours
Hard Dry	11 hours
Dry to recoat, minimum	8 hours
Dry to recoat, maximum*	-----
Full cured	7days @ 25°C

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:

Packed in:	Base	Hardener
Gallon	2.88 L	0.72 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.



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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.