

Technical Data Sheet

JAZEERA ROYAL SILK

JA-16052

Description:

A high quality water borne silk topcoat paint, based on pure acrylic emulsion. Characterized by crack-bridging ability, outdoor durability and excellent resistance weather and UV.

Recommended Use:

Recommended to use for exterior applications on concrete, cement, and brick surfaces, for educational institutions, residential, commercial, industrial buildings. Also it can be applied over textures.

Characteristics:

- Excellent resistance to UV and weather conditions.
- Excellent adhesion.
- Crack-bridging ability.
- Resistance to dirt pick up.
- High anti-carbonation Property
- Excellent color retention.
- High smooth and leveling property.
- Resistance to bacteria inside can.
- Very Low VOC.
- Free from formaldehyde, ammonia and APEOs.

Certificates:

- In accordance with the SASO standard No.: 470 / 2016.

Physical Constants:

• Finish	Silk.	
• Color	White and other colors of Jazeera color card.	
• Gloss	(5 - 7) at an angle of 60°	ASTM D1475.
• Specific Gravity	1.30	ASTM D562.
• Viscosity	97 KU	ASTM D2697.
• Volume Solid	40 %.	
• D.F.T.	30-40 μ , each coat.	
• Theoretical Spreading Rate*	10-13.3 m ² /L	
• Freeze-Thaw Stability	Pass, 3 cycles	ASTM D2243.

Tests:

• Water Resistance	Pass	ASTM D870.	
• Alkali Resistance	Pass	ASTM D1308.	
• Salt Resistance	Pass	ASTM D1308.	
• Adhesion	Pass	ASTM D3359	
• Flexibility	Pass	ASTM D522.	
• Storage Stability	Pass, 30 days at 52°C.	ASTM D1849	
• VOC	<1 g/L	ASTM D2369	METS - UAE.
• VOC Emission After Application	Pass	LEED Requirements - Ver.4	METS - UAE.
• Crack-Bridging Ability	Pass crack width 2.2mm	EN 1062-7:2004	Wimpey Laboratories - UAE.
• UV Resistance	Pass	ASTM G154-23	Wimpey Laboratories - UAE.

• Carbon Dioxide Permeability Test: (BS EN 1062-6:2002 Method A) Wimpey Laboratories - Dubai - U.A.E.

-Specimen Thickness: 175 μ m.
 -Average Carbon dioxide permeability: 0.944 g/m².d.
 -Diffusion equivalent air thickness in meter (SD): 262.71 m.
 -Diffusion resistance number: 1.5×10⁶.
 -Carbon dioxide diffusion coefficient of the coating: 9.99×10⁻⁸ cm².s⁻¹.
 -Diffusion equivalent of concrete in meter (SC): 5.56 cm.

Classification of coating material and coating systems for exterior masonry and concrete: C1 (DIN EN 1062-1:2004-08).

*The practical spreading rate of the product depends on the surface, ambient temperature, application method, actual DFT and the wasted amount.
 (To avoid waste, be sure to buy the right amount of the paint for the required surface area).

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Surface Preparation:

- All new surfaces shall be cured at least **28** days prior to application of the primer.
- Remove old paints completely from previously painted surfaces .
- The substrate should have sufficient strength and free from unsounded areas, pug holes, protrusions and pops.
- Make sure that the surface is clean, dry, free from dust, oil, grease, salt and mold .
- Fill the holes and cracks with suitable fillers such as "**Jazeera Ultimate**", "**Jazeera Unique Filler**" or "**Jazeera Epoxy Crack Filler 400**" prior to application of the primer (Refer to TSD).

Application Guide:

- The required temperature during application, must not be less than 5°C; the surface moisture should not exceed 8% and the relative humidity at work place should not exceed 70%.
- pH of surface should not exceed 9.
- Paint should be stirred carefully before use.
- A suitable quantity of "**Tap Water**" can be added to get reasonable viscosity for application.
- Do not apply on wet and moistened surfaces until completely dry.
- Do not apply the next coat unless the previous one is fully dry. Minimum recoating interval time should be followed.
- Adequate ventilation should be provided during application and drying.

Application Tools:

- Airless spray: Nozzle orifice : **0.015-0.019"**
Nozzle pressure : **15 MPa (2100psi)**
Spray angle : **40-60°**
 - Air spray : Nozzle size: **(1.5 – 1.8) mm.**
 - Roller: Soft and smooth roller
- (Recommended type: Dekor Nardeen **8009** - code: **1093**)
- Brush: Suitable type.

Thinner:

Tap water.

Thinning Ratio:

- (0 – 10) % by volume for airless spray.
- (15 – 25) % by volume for air spray gun.
- (10 – 15) % by volume for roller and brush.

All above depends on the weather and application conditions.

Painting System:

- Apply one coat of "**Jazeera Royal Prime**" or any other suitable type of Al-Jazeera primers, depending on the surface nature and let it to dry.
- Apply two coats of "**Jazeera Royal Silk**".



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Drying Time:

Surface dry:	30 min.
Hard dry	4 hours.
Recoating interval	8 hours.(minimum)
• Full cure:	7 days.

All above results were tested according to ASTM D5895 @ 25°C.

Cleaning Tools:

Tap water.

Packing:

- US Gallon. & 18 Ltrs. Drum.
- Gallon: Base 3 Ltr (Tintable).
- Drum: Base 16.2 Ltr (Tintable).

Shelf Life & Storage:

Shelf life : 24 months @ 25 °C.

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

Safety Precautions:

Please read and follow the precautionary notices displayed on the container, and all caution statements on the MSDS of this product.

- Handle with care before and during use.
- During application of paint, contact of liquid paint with eyes, skin, inhalation of paint mist and paint vapour, should be strongly avoided.
- Recommended to use the product in well-ventilated area when applying the paint in insufficient ventilated areas, forced ventilation should be provided.
- 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.

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.