

Technical Data Sheet
JAZEERA FLOOR COATING 400
J1-68057

Description:

High build two component solvent free amine cured epoxy floor coating with self-smoothing and seamless properties for protection and decoration. It is high-gloss smooth finish without any joint traces, highly resistant to chemicals and abrasions as well as anti-flame spread properties.

Recommended Use:

Recommended to use where high wear, abrasion and chemical resistance also high cleaning properties are required. Ideal for variety surfaces such as concrete, cement, mortars and steel. It can be used on a broad range of interior flooring such as: aircraft hangers, factories, warehouses, car garages, parking, power stations, exhibition halls, showrooms, food industries and laboratories. If intended to be used in exterior, it should be overcoated by "Jazeera Florthane SB".

Characteristics:

- Excellent self-leveling.
- Easy to apply, seamless surface.
- Jointless finish.
- Easy to clean, dust free and hygiene.
- Superior wear and abrasion resistance.
- Excellent resistance to chemicals and water.
- Excellent flame spread resistance.
- Low odor, solvent free.
- Superior slip resistance when using "Jazeera Aggregate" in the painting system.

Physical Constants:

• Finish:	Gloss (gloss level 80% @ 60°).	
• Color:	Grey and other limited colors.	
• Specific Gravity:	1.52 (mixed paint varies from color to color)	ASTM D1475
• Viscosity:	115 KU (varies from color to color)	
• Volume Solid:	100 %	ASTM D2697
• DFT:	200-500 µm per coat. Depending on the surface and system.	
Theoretical Spreading Rate:	1.3-3.3 m ² /kg. / 2-5 m ² /L	

Tests:

• VOC	25.67 g/L	ASTM D2369	METS - UAE.
• VOC Emission After Application	Pass	LEED Requirements - Ver.4	METS Laboratory - U.A.E.
• Adhesion:	7.18 N/mm ²	ASTM D4541-17	Wimpey Laboratory - U.A.E.
• Impact Resistance:	2.1 kg-m	ASTM D2794-93	Wimpey Laboratory - U.A.E.
• Water Absorption:	0.08%	ASTM C413	Wimpey Laboratory - U.A.E.
• Compressive Strength:	108.4 N/mm ²	ASTM D695-10	Wimpey Laboratory - U.A.E.
• Flexural Strength:	63.48 N/mm ²	ASTM D790	Wimpey Laboratory - U.A.E.
• Tensile Strength:	24.1 MPa	ASTM D2370	Wimpey Laboratory - U.A.E.
• Elongation:	1.95%	ASTM D2370	Wimpey Laboratory - U.A.E.
• Abrasion Resistance:	86 mg/1000 cycles	ASTM D4060-14	Wimpey Laboratory - U.A.E.
• Slip Resistance:	Pass	E303-18	Wimpey Laboratory - U.A.E.
• Hardness, Shore D:	D/82/1	ASTM D2240-15	Wimpey Laboratory - U.A.E.
• Scratch Hardness:	Pass pencil 6H	ASTM D3363-05	Wimpey Laboratory - U.A.E.
• Scratch Resistance:	Resistant	ASTM D7027-013	Wimpey Laboratory - U.A.E.
• Temperature Resistance:	Pass @100°C.	ASTM D2485-18 Method A	Wimpey Laboratory - U.A.E.
• Chemical Resistance:	Pass	ASTM D1308-02 (2018)	Wimpey Laboratory - U.A.E.
• Flame Spread Resistance:	Pass- Class 1	ASTM E84-24	Element
• Critical Radiant Heat Energy Flux	1.03 W/cm ² - Class1	ASTM E648-23	Element



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Surface Preparation:

For Concrete Surfaces:

- All new surfaces must be cured at least for 28 days prior to application.
- The concrete substrate should be sound with minimum compressive strength 30 N/mm² and pull off strength 1.5 N/mm².
- Make sure that the surface is clean , dry , free from dust, oil, grease, salt , mold, all forms release agents /curing and old paint.
- the surface should be prepared by light grit blasting or surface grinding to achieve concrete surface profile CSP2-3 as per International Concrete Repaire Institute ICRI. No 310.2 / SSPC - SP 13 or NACE 6
- Remove dust from the surface by vacuum machine.
- Fill the holes and cracks with "Jazeera Epoxy Crack Filler 400" or any suitable epoxy filler prior to application.

For steel surfaces

- 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).

Application Tools:

- Roller: short naps roller (3/8 inch) is suitable type for epoxy.
- Brush: a stiff nylon brush.recommended for narrow areas.

Application Conditions:

- Temperature during application should be more than (5°C).
- Surface temperature: at least (3°C) above dew point.
- Relative humidity: maximum 85%.
- Concrete moisture content should not exceed than 4%.

Application Instructions:

- Do not apply on wet and moistened surfaces until they are completely dry.
- PH of surface should not exceed 9.
- Concrete damages should be repaired before application.
- Rough and irregular surfaces need to leveled by using screed mortar products, depending on surface irregularities.
- Freshly applied paint should be protected from water and damp at least 24 hours.

Mixing:

Mixing ratio (By Weight) : Base 6.14 : Hardener 1

Mixing procedure:

- Stir base by using a low speed mechanical stirrer.
- Pour hardener into base.
- Mix the two components continuously for 2 minutes until a homogenous mixture and uniform color obtained.

Pot Life:

50 minutes @ 25°C.

15 minutes @ 45°C.

The mixture should be used within this potlife time.

Thinner: Not Recommended.

Painting System:

• For Concrete and Cement surfaces:

- It can be applied directly to a concrete substrate, provided that it is non-porous, sound, and has suitable hardness.
- Primer: Apply one coat of "Jazeera Epoxy Sealer / Epoxy Sealer Clear / Epoxy Sealer 400" according to surface nature.
- Topcoat: • Apply two coats of "Jazeera Floor Coating 400".
- Note: for exterior application apply two coats of "Jazeera Florthane SB" as a topcoat.

- For slip resistance finish use Jazeera Aggregate as following:

• Broadcasting method:

- Broadcast "Jazeera Aggregate G10-G30-G40" on the primer by rate 0.5-1 kg/m² or 1st coat of "Jazeera Floor Coating 400" before drying.
- After drying the excess aggregate should be removed by vacuum cleaner or brush.
- Apply one or two coats of "Jazeera Floor Coating 400" as required roughness.
- Mixing Method: Mix "Jazeera Aggregate G10-G30" with "Jazeera Floor Coating 400" by rate 7.5-8 kg/drum 27.36 kg.
- Apply one coat of the mixture.

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• Texture method:

- Mix "Jazeera Filler F1" with "Jazeera Floor Coating 400" by rate 700 - 750 gram/drum 25.36kg.
- Apply one coat of the mixture.
- Make texture finish by using special sponge roller.

•For Steel Surfaces:

- Primer: Apply one coat of "Jazeera Epoxy Zinc Phosphate primer".
- Topcoat: Apply two coats of "Jazeera Floor Coating 400".
- Note: for exterior application apply two coats of "Jazeera Florthane SB" as a topcoat.

Drying Time:

- Surface dry: 4-5 hours
- Dry to light traffic: 24 hours
- Dry for heavy traffic and service: 7 days.
- Recoating interval: 12 hours. (minimum)
36 hours. (maximum)
- Full cure: 7 days.

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

Packing:

Drum : Kit (27.36 kg) / 18 L:	Base 23.53 kg / (14.17 L)	Hardener 3.83 kg / (3.83L)
Tintable base A,C :	Base 22.570 kg / (Base A 13.68 L) - (Base C 13.93 L)	Hardener 3.83 kg / (3.83L)
Drum : Kit 20 kg / 13.16 L	Base 17.20 kg / (10.36 L)	Hardener 2.80 kg / (2.8L)
Tintable base A,C :	Base 16.50 kg / (Base A 10.0 L) - (Base C 10.18 L)	Hardener 2.80 kg / (2.8L)
Gallon : Tintable bases A / C :	Base 4.0 kg / (Base A 2.42 L) - (Base C 2.47 L)	Hardener 0.68 kg / (0.68L)

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.

Handling and Safety:

- Cleanup: 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. 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.

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.