

Technical Data Sheet

JAZEERA EPO-MASTIC

JI-67009

Description:

A high build two component surface tolerant paint, based on epoxy polyamide. It has a high resistance to corrosion and abrasion and with excellent adhesion. Suitable for heavy duty atmospheric systems.

Recommended Use:

As a self primed, surface tolerant or as an intermediate or top coat. Use for new construction and maintenance of structural steel, also can be applied as maintenance coating over existing coatings. Can be applied where excellent corrosion resistance and high dry film thickness is required.

The following are some field applications to use in:

- Tanks, vessels and pipes, eq.; ballast, potable water tanks bilge and drainage pipes.
- Ships, offshore and marine structures, above and below water line hull areas, decks, super structures and multipurpose maintenance coating.
- Structural steels, equipment, masonry surfaces, bridges and chemical plants.

Characteristics:

- Excellent self-priming.
- Excellent adhesion to tight rust and damped surfaces (steel, galvanized steel and concrete).
- Outstanding corrosion protection even in marine environment.
- Resistance to salt, chemicals and fresh water immersion
- Good dielectric property.

Physical Constants:

• Finish:	Semi-gloss	
• Color:	Limited colors.	
• Volume Solid:	66.88% ,	ASTM D2697
• Viscosity:	105 KU @ 31°C,	ASTM D562.
• Specific Gravity:	1.41, @ 25°C	ASTM D1475
• D.F.T:	160 µm.	
• Theoretical Spreading Rate:	4.18 m ² /L @ D.F.T. 160 µm.	
• VOC:	291 g/ ltr.	

Surface Preparation:

STEEL:

- 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).

CONCRETE:

- All new surfaces must be cured at least for 30 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 CSP1-3 as per International Concrete Repaire Institute ICRI. No 310.2R / SSPC - SP 13 or NACE 6
- Fill the holes and cracks with suitable fillers "Jaz Epoxy Crack Filler ESP " prior to application.
- Remove dust from the surface by vacuum machine.

MAINTENANCE:

- Refer to pre-cleaning, remove damaged areas using power tool cleaning to St 2 (SSPC-SP3) or by abrasive blasting to Sa 2 (NACE No. 3/SSPC-SP 6), but Sa 2½ (NACE No. 2/SSPC-SP 10) is preferable. As an alternative; use water jetting to WJ-2 (NACE No. 5/SSPC-SP 12).

SURFACE PROFILE:

- Check the surface roughness using comparators :
- ISO Comparator: Fine to Medium Grade (G) (28-85 µm), or Keane-Tator Comparator: 1.0 – 3.0 (G/S).

Application Condition:

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

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Application Method and Thinning:

THINNER: Jazeera Thinner 505.

Application Method	Airless Spray	Air Spray	Brush/Roller**
Thinning (by volume)*	(0-5)%	(0-15)%	(0-5)%
Nozzle Orifice	0.023-0.031"	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)	100	4	250	10	160	6.4
Wet Film Thickness (WFT)	150	6	374	15	240	9.5
	m ² /l	ft ² /USgal	m ² /l	ft ² /USgal	m ² /l	ft ² /US gal
Theoretical Spreading Rate	6.7	268	2.67	107	4.18	168

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	@ 30°C	@ 35°C	@ 40°C
Surface dry	3:30 hrs	3:30 hrs	3:00 hrs	3:00 hrs
Hard dry	5:30 hrs	5:00 hrs	5:00 hrs	4:30 hrs
Dry to recoat (minimum)	8:00 hrs	8:00 hrs	6:00 hrs	6:00 hrs
Dry to recoat (maximum)	Unlimited	Unlimited	Unlimited	Unlimited
Full cure (cure not dry)	7 days	7 days	7 days	7 days

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.

Painting System:

- Primers: Self-priming, Jazeera Epo-Rich Primer, Jaz Inorganic Zinc Prime or any suitable of Jazeera primers.
- Topcoats: Can be overcoated with all kinds of epoxy and PU paints. For other suitable topcoats, consult Jazeera TSD.

Application Data

- Mixing ratio: By volume: Base : Hardener
3 : 1
- Pot-life: 2 hours @ 25 °C.
- Induction time: Nil.

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Packing:

•Packed in:	Base		Hardener
	2.7 Ltr	:	0.9 Ltr
	13.5 Ltr	:	4.5 Ltr

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:

- Clean up: Use "Jazeera Thinner 505" for cleaning tools and in case of stains while application.
- 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.