

## Technical Data Sheet

### JAZEERA EPOXY SEALER CLEAR 400

JI-61032

#### Description:

A high quality, two-component, solvent-free sealer based on epoxy resin and specially formulated curing agent, an excellent concrete priming and sealing material to provide high strength and excellent chemical and water resistance, it can be used as as screed mortar by adding suitable filler.

#### Recommended Use:

Recommended to use as a sealer coat for exterior and interior applications on concrete and cement surfaces for floors and walls where excellent sealing and adhesive properties are required for concrete surfaces, also can be used as screed mortar.

#### Characteristics:

- Excellent adhesion to concrete and cement surfaces.
- Excellent sealing property.
- Excellent resistance to salt and alkali.
- High solid and low VOC.
- Multi uses as a sealer and binder in screed mortar.

#### Physical Constants:

• Finish:	Gloss	
• Color:	Clear	
• Volume Solid:	100%	ASTM D2697
• Viscosity:	83 KU (mixed paint) @ 25°C	ASTM D562
• Specific Gravity:	1.10 mixed paint as a sealer coat. 2.3 mixed with Jazeera Filler F3. 1.95 mixed with Jazeera Aggregates G10. 1.13 mixed with Jazeera Filler F1.	ASTM D1475
• DFT:	100-300 μ as a sealer coat. up to 1 cm as a screed Mortar.	
• Theoretical Spreading Rate:	10 m <sup>2</sup> / ltr at 100 μ DFT as a sealer coat. 0.04 m <sup>2</sup> / kg at 1 cm DFT as a screed Mortar.	

\*(No of coats depends on porosity of the surface).

#### Tests:

• VOC content	18.93 g/L	ASTM D3960	METS, UAE
• VOC Emission After Application	Pass	LEED Requirements - Ver.4	METS, UAE
Jazeera Epoxy Sealer Clear 400 with Aggregates / Filler :			
• Adhesion:	2.81 N/mm <sup>2</sup>	ASTM D4541-17	Wimpey Laboratory - U.A.E.
• Compressive Strength:	61.8 N/mm <sup>2</sup>	ASTM C579-18	Wimpey Laboratory - U.A.E.
• Flexural Strength:	24.87 N/mm <sup>2</sup>	ASTM C580-18 Method A	Wimpey Laboratory - U.A.E.
• Tensile Strength:	16.7 N/mm <sup>2</sup>	ASTM C307-18	Wimpey Laboratory - U.A.E.

#### Surface Preparation:

- 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/mm<sup>2</sup> and pull off strength 1.5 N/mm<sup>2</sup>.
- 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 suitable fillers "Jazeera Epoxy Crack Filler 400" prior to application.

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#### Application Tools :

- Roller: Recommended type: short naps roller (3/8 inch ) suitable types 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%.

#### Mixing:

As a sealer :            Base                            Hardener (By volume)  
                                 2.8    :    1

##### Mixing procedure:

- Stir base by using a low speed mechanical mixer.
- Pour hardener into base.
- Mix the two components continuously for 2 minutes until a homogenous mixture and uniform color obtained.
- For screed mortar : (Thickness : more than 3mm)

	Base	:	Hardener	:	Jazeera Filler F3
(By wieght)	0.76	:	0.24	:	9
	19.8 kg = (1 drum)	:		:	178.2 kg = ( 5.89 bag(30.24 kg) )

##### Mixing procedure:

- Stir base by using a low speed mechanical mixer.
- Pour hardener into base.
- Mix the two components continuously for 2 minutes until a homogenous mixture and uniform color obtained.
- Add "Jazeera Filler F3" gradually and Mix with a slow speed mixing until get homogeneous mixture.
- For screed mortar : (Thickness : less than 3mm)

	Base	:	Hardener	:	Jazeera Aggregate G10
(By wieght)	0.76	:	0.24	:	2 - 4 (due to required thickness)
	19.8 kg = (1 drum)	:		:	39.6 - 79.2 kg = ( 1.58 - 3.16 bag (25 kg) )

##### Mixing procedure:

- Stir base by using a low speed mechanical mixer.
- Pour hardener into base.
- Mix the two components continuously for 2 minutes until a homogenous mixture and uniform color obtained.
- Add "Jazeera Aggregate G10" gradually and Mix with a slow speed mixing until get homogeneous mixture.
- For scratch coat:

	Base	:	Hardener	:	Jazeera Filler F1
(By wieght)	0.76	:	0.24	:	0.10-0.15
	19.8 kg = (1 drum)	:		:	2-3 kg = (0.67 - 1 bag (3 kg) )

##### Mixing procedure:

- Stir base by using a low speed mechanical mixer.
- Pour hardener into base.
- Mix the two components continuously for 2 minutes until a homogenous mixture and uniform color obtained.
- Add "Jazeera Filler F1" gradually and Mix with a slow speed mixing until get homogeneous mixture.



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#### Potlife:

35 minutes @ 25°C.

The mixture should be used within this potlife time.

#### Induction Time: Nil.

**Thinner:** Not recommended.

#### Application Instructions:

- Do not apply on wet and moistened surfaces until they are completely dry.
- PH of surface should not exceed 9.
- Holes and crack should be assessment and treated by using "Jazeera Epoxy Crack Filler 400".
- 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.

#### Painting System:

- For sealer: Apply one coat of "Jazeera Epoxy Sealer Clear 400".
- For screed mortar : (Thickness : more than 3mm)  
-Apply one coat "Jazeera Epoxy Sealer Clear 400" .  
- Mix Jazeera Epoxy Sealer Clear 400 with "Jazeera Filler F3".  
- Apply the mixture on wet condition of sealer.  
(recommended thickness for large scale areas up to 1cm, for patching and repairs up to 4cm).
- For screed mortar : (Thickness : less than 3mm)  
- Mix Jazeera Epoxy Sealer Clear 400 with "Jazeera Aggregate G10".  
- Apply the mixture on places to be repaired.
- For leveling and closing surface pores (scratch coat):  
- Mix Jazeera Epoxy Sealer Clear 400 with "Jazeera Filler F1".  
- Apply the mixture on places to be repaired.
- Topcoats: Can be over coated with all kinds of epoxy and PU.

#### Drying Time:

- Surface dry 8-9 hours.
- Recoating Interval 12 hours.(minimum)  
7 days. (maximum)
- Full Cure 7 days.
- All above drying time tested according a to ASTM D5895@25°C.

#### Packing:

- |                | Base       | Hardener  |
|----------------|------------|-----------|
| • Drum 18 Ltr: | 13.27 Ltr. | 4.73 Ltr. |
- 19.8 kg = (18L) Jazeera Sealer 400 .
- "Jazeera Filler F3" : bag (30.24 kg).
  - "Jazeera Aggregate" bag (25 kg).
  - "Jazeera Filler F1" bag (3 kg).

#### 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.  
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.