

## Technical Data Sheet

### JAZEERA EPO-MORTAR NB

#### JI-65004

#### Description:

A normal build based on high quality solvent free epoxy polyamine cured epoxy screed mortar. An excellent concrete resurfacing material to provide high strength, outstanding impact, excellent chemical and abrasion resistance. The three pack product consist of a resin base, hardener and special silica aggregates supplied in pre-weighed quantities ready for use on-site mixing and use.

#### Recommended Use:

Recommended to use for interior applications for horizontal concrete surfaces repairs, particularly where high strength, abrasion-resistance and resistance to chemical is required. The product is ideal suited for industrial floor and for use as a bedding mortar. Also suitable for repairing rough, damaged and broken concrete, in addition to heavy traffic areas.

#### Characteristics:

- High resistance to a wide range of chemicals.
- Excellent adhesion and durability.
- Excellent resistance to impact and abrasion.
- High resistance to alkali and salt solutions.
- High impermeable to water.
- High ultimate strength.

#### Physical Constants:

• Finish:	Rough.	
• Color:	Natural Sand.	
• Volume Solid:	100 %	ASTM D2697
• Density:	2.3 g/cm <sup>3</sup> (Mixed)	
• D.F.T:	10 mm	
• Theoretical Spreading Rate:	0.044 m <sup>2</sup> /kg @ 10 mm Thickness	
• VOC:	0 g/ ltr.	

#### Tests:

• Adhesion Strength:	5 Mpa.	ASTM C 4541-2009.
• Compressive Strength:	71 N/mm <sup>2</sup> 28 days @ 23±2 °C .	ASTM C 579-2001.
• Tensile Strength:	15.6 N/mm <sup>2</sup> 28 days @ 23±2 °C.	ASTM C 307-2003.
• Hardness, Shore D:	70-75 N/mm <sup>2</sup>	ASTM D 2240/2010.
• Flexural Strength:	16.84 N/mm <sup>2</sup>	BS 6319/2006.
• Slip Resistance:	Dry: 65 PTV Wet: 58 PTV Rough: 35 RZ	BS 7976/2002.
• Resistant to Chemicals	Pass 24 hours at 30°C.	ASTM C 543-2006.

#### 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 "Jazeera Epoxy Crack Filler 400" or any suitable epoxy filler prior to application.

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#### Priming:

- For concrete surfaces: Apply one coat of "Jazeera Epoxy Sealer 400".
- If it is absorbed by a porous substrate, re-prime before applying "Jazeera Epo-Mortar NB".

#### Mixing:

The mixing of "Jazeera Epo-Mortar NB" should be carried out with full packs only pour all the resin and hardener into clean vessel. Mix with a slow speed high torque drill and mortar stirrer until homogeneous. Add the aggregates slowly whilst continuously mixing. After all aggregates have been added mix for further one minute.

Mixing ratio (By weight):      Base                      Hardener                      Jazeera Filler F3  
   2.56                      :                      0.80                      :                      30.24

Pot-life:                      45 min @ 25 °C

Induction time:                      Nil

#### Application Method:

- Place the mixed material on the primed surface while the primer is still wet (Tacky), using a clean trowel or other suitable hand tool. Ensure that the applied mortar is worked well into repair edges and any irregularities.
- Smooth surface finish may be achieved by using steel float moistened with "Jazeera Thinner 507".
- For patches: Place "Jazeera Epo-Mortar NB" in layers up to 4cm.
- Place "Jazeera Epo-Mortar NB" in layers approximately 10 mm.

#### 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%.

#### Film Thickness and Spreading Rate:

	Minimum		Maximum		Recommended	
	(mm)	mil	(mm)	mil	(mm)	mil
Dry Film Thickness (DFT)	3 mm	120	40mm	1600	10 mm	400
Wet Film Thickness (WFT)	3 mm	120	40mm	1600	10 mm	400
	m <sup>2</sup> /kg		m <sup>2</sup> /kg		m <sup>2</sup> /kg	
Theoretical Spreading Rate	0.145		0.011		0.044	

#### 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                      8 hours
- Hard Dry                      24 hours
- Dry to recoat, minimum                      24 hours
- Dry to recoat, maximum\*                      -----
- Full Cure:                      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.

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#### 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.

#### Packing:

Package:	34 kg.		
Packed in:	Base	Hardener	Jazeera Filler F3
	2.56kg	0.80kg	30.24 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.

#### 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.
- Notes: 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.