

JAZEPAIR – EPL

2-Component, Solvent-free, Chemical & Abrasion Resistance, Non-sag, Epoxy Resin-based Durable Lining Mortar

Product Description

JAZEPAIR – EPL is 2-component, solvent-free, non-sag, high strength; impervious, abrasion resistant, chemical & water resistant epoxy resin-based lining mortar. It is based on a combination of selected epoxy resins, curing agents and well graded hard aggregates. After mixing it produces smooth, trowelable, durable non-sag mortar that has an excellent adhesion to concrete & cement-based substrates enabling successfully in lining sewage. It can be used applied easily upon vertical & overhead and horizontal substrates.

Uses

JAZEPAIR – EPL is formulated to be used as a durable waterproofing, high strength chemical resistance, non-sag, abrasion resistance epoxy resin lining mortar in:

- Manholes.
- Outfalls.
- Sewage works

It is suitable to be used as:

- Joint in concrete high ways.
- Repairing mortar for the damaged concrete.
- Filling of cavities in horizontal, vertical & overhead substrates (concrete and masonry).
- As a chemical resistant, durable, waterproofing protective layer.
- Emergency repair works to concrete structures in sewage and processing plants.
- As structural bonding agent on concrete and masonry surfaces.

Advantages

- Easy to apply.
- Chemical & abrasion and impact resistance.
- Excellent adhesion to concrete and masonry surfaces.
- Non-shrink.
- Durable, waterproofing and resist the ingress of chlorides and other water-born salts.
- Can be applied upon horizontal, vertical & overhead substrates.
- High strength permanent bond between two structurally sounded materials.
- Can be applied on dry or damp surfaces.
- Formulated for the Middle East Climates.

Standards

JAZEPAIR – EPL is formulated to comply with all requirements of ASTM C-881 "Epoxy Resin - Base Bonding Systems for Concrete" Type III, Grade 3, Class B & C

Technical Properties

Appearance (mixed materials)	Grey, smooth, non-sag consistency.
Specific Gravity @20 °C	1.7 (mixed materials)
Pot-life @ 20 °C	60-minutes
Water Absorption (ASTM D-570)	0.30 % (by weight)
Compressive Strength (ASTM C-597)	90 N / mm ² .
Flexural Strength (ASTM D-790)	35 N / mm ² .
Tensile Strength (ASTM D-638)	20 N / mm ² .
Bond Strength (ASTM C-882)	24 / mm ² Concrete failure)

Chemical Resistance

JAZEPAIR – EPL has been tested for chemical resistance to a comprehensive range of industrial & domestic chemicals. After constant immersion for 90-days @ 35 °C in accordance with ASTM D-2240 are:

Acids

Hydrochloric 50 %	Excellent
Sulfuric 50 %	Excellent
Nitric 25 %	Good
Acetic 10 %	Excellent
Lactic 10 %	Excellent
Citric 10 %	Excellent

Alkalis

Sodium hydroxide	50 %	Excellent
Sodium Carbonate	50	excellent
Ammonia	10 %	Excellent
Potassium Hydroxide	50 5	Excellent
Sodium Hypochlorite	15 %	Excellent

Solvents & Oils

Ethanol	Excellent	Soya Bean Oil	Excellent
Ethyl Glycol	Excellent	Vegetable Oil	Excellent
White spirit	Excellent	Detergent	Excellent
Petrol & Diesel Oil	Excellent	Fat	Excellent
Coconut oil	Excellent	Milk	Excellent
Cotton Seed Oil	Excellent	Pine Oil	Excellent
Soya Bean Oil	Excellent	Linseed Oil	Excellent
Silicates	Excellent	Water	Excellent

For Specific Chemical reagent, please ask for technical support.

Guide for Applications

Surface Preparation

All surfaces shall be sound, clean free from dust, grease & oils or other materials may make any de-bonding. Priming is not necessary.

Mixing

Stir well both components A and B well before use.

Pour all Component B: curing agent into component A: resin and mix well until homogenous consistency is achieved. Continue mixing till homogenous consistency free from lumps is achieved. Electric drill of low speed (300- 400 rpm) can be used for proper mixing.

Application

The mixed material shall be applied onto the prepared substrate by trowel. Spread the mixed materials and trowel firmly into the prepared substrate.

Cleaning

Clean any spillages with normal water and soap

Packaging

JAZEPAIR – EPL is supplied in 2-component having pack size: 4 or 8-Kg.

Storage & Shelf-life

JAZEPAIR - EPL shall be stored in normal conditions away from any extreme temperatures; Shelf-life is 24-monthes if stored properly in well-closed containers.

Health & Safety

- JAZEPAIR - EPL is non-toxic, non-hazardous during handling, storage and use.
- For Ecology: Do not dispose directly to water or soil. Mix with plenty amount of sand before this to comply with the local regulations.
- Splashes on skin will be washed with water and soap.