

JAZEPOXY - 311

2-Component, Non-sag, High performance Epoxy Resin-based Adhesive and Anchoring Agent

Product Description

JAZEPOXY – 311 is 2-component, Non-shrink, Non-sag, corrosion resistant, High performance, Epoxy-resin-based adhesive and anchoring agent. It is formulated to be used as anchoring agent and multipurpose adhesive which has an excellent adhesion to concrete (damp or dry), steel, and masonry substrates. It is based on selected epoxy resins, curing agents and selected hard aggregate to provide high mechanical properties and excellent chemical resistance and corrosion resistance properties.

Uses

JAZEPOXY - 311 is formulated to be used as non-shrink, high strength, excellent adhesion, corrosion resistance anchoring & adhesive agent in:

- Precast panels and precast villas
- Anchoring bolts & rods onto concrete, rocks, and masonry.
- Structural bonding of strengthening materials such as carbon fibers and steel plates.
- Filling bolt pockets (horizontal, vertical and overhead).
- Sealing and protecting cracks.
- Concrete repairs: walls, ceilings and floor.
- Structural adhesive for pre-cast elements
- Multipurpose adhesive for concrete, stone, steel & iron, ceramics, marble, aluminum, and woodchips boards, wood, polyester, etc.

Advantages

- Easy to mix and to apply.
- Non-sag: can be applied onto horizontal, vertical & overhead surfaces.
- Can be applied on both dry and damp substrates
- Non-shrink curing.
- Chemical resistant.
- Corrosion –resistant.
- High strength and mechanical properties.
- Excellent adhesion to most substrates.
- Excellent impact & abrasion resistance.
- Formulated for the Middle East Climates.

Standards

JAZEPOXY - 311 is formulated to comply with all requirements of ASTM C-881: "Epoxy resin – based Bonding Systems for concrete" Type I, II, III and VI, Grade 3, Class B & C.

Technical Properties

Appearance

Non-sag grey Paste-like liquid (mixed materials)

Specific Gravity @20 °C

1.65 ± 0.05 (mixed materials)

Chemical Resistance

It resists most of common reagents, sea water, corrosive salts, inorganic and organic acids, alkalis, petrol, oil, kerosene, etc.

Mix Ratio:

Component A: Component B = 4 : 1 by weight.



Compressive Strength (ASTM D-695)	90 N / mm ²
Flexural Strength (ASTM D-)	35 N / mm ² .
Tensile Strength (ASTM D-638)	20 N / mm ²
Bond Strength to Concrete (ASTM C- 882)	3 N / mm ² .
Bond Strength to steel	15 N / mm ²
Water Absorption (ASTM D-570)	0.01 %
Coefficient of thermal expansion (ASTM C-580)	40 x 10 ⁻⁶ mm/mm per °C
Flash Point	> 150 °C
Pot-life @ 25 °C	45 minutes
Modulus of Elasticity	> 4300 N / mm ² .

Guide for Applications

Surface Preparation

All surfaces shall be sound, clean and free from dust, oil & grease or any contaminants that may affect the bond between the product and substrate. Metal surfaces shall be free from rust.

Mixing

Stir each component well before mixing. Pour the whole amount of Component B into the container of Component A and mix well till homogenous paste-like consistency and colour is achieved. An electric slow paddle is recommended (400 – 500 rpm) to achieve optimum properties & performance. Avoid introducing air during mixing.

Application

Apply the mixed material onto prepared substrates using trowel when a thin film is recommended as a bonding agent or gap filler. The joint shall be closed properly and immediately within the open time (45-minutes @ 25°C).

If the materials will be used for anchoring bolts or concrete steel reinforcement, it shall be injected into the hole avoiding air – entrapment.

Cleaning

Clean all tools & equipment with solvent no.2 after finishing the work immediately.

Packaging

JAZEPOXY - 311 is supplied as 2-component: 5-Kg kit.

Storage & Shelf-life

JAZEPOXY - 311 shall be stored in normal conditions away from any extreme temperatures, shelf – life is 24-months.

Health & Safety

- JAZEPOXY - 311 is non-toxic, non-hazardous during handling, storage and use.
- For Ecology: Do not dispose directly to water or soil, re-use it if possible or mix each component (A and B) and after hardening bury it in landfill.
- Splashes on skin will be removed then wash with water and soap.

JCC CONSTRUCTION CHEMICALS

The information herein is general information to assist our customers in determining whether our products are suitable for their specific applications. Our products are intended for sale to commercial and industrial customers. We require that customers should inspect and test our products before use to satisfy themselves as to the content and suitability for the application they intend to use our products for.

JCC endeavors to ensure that any advice, recommendation, specification of information in accurate and correct manner.