CLASS EPX-430

Fluid Epoxy Repair and Assembly Compound

BENZKİM

Product Overview

It is a three-component, specially graded aggregate and high-strength epoxy resin-based anchoring and casting mortar.

Application Domains

- In anchoring operations,
- In the assembly of heavy machinery,
- In repairs necessitating high strength in the beams and legs of portal and tower cranes,
- In machine foundations exposed to dynamic loads,
- In securing steel columns to the foundation,
- It is utilized to mend substantial fissures present in structures and flooring.

Technical Specifications

Colour	Gray
Mixture Density	2,00 kg/lt
Blending Proportion	By weight: 2A/1B/12C mPas
Adhesion to Steel	≥3,5 N/mm^2
Adhesion to Concrete (Separation from Concrete)	≥3,0 N/mm^2
Compressive Strength	≥75 N/mm^2
Container Living	~30 minutes (20 °C)
Sanitation Duration	~60 minutes (20 °C)

The information presented in this technical data sheet is derived from experimental results. The responsibility for the proper application of our original product rests with the user. Our company is solely accountable for the product's quality. This data sheet supersedes the information provided in the previous version. Our company reserves the right to amend any information contained within this data sheet.

Advantages

- Lining is not necessary.
- It disseminates and establishes itself autonomously.
- It possesses significant compressive, tensile, and bending strength.
- It possesses exceptional wear and impact resistance.
- It adheres seamlessly to concrete and cementitious surfaces.

It is impervious to water.

- It does not diminish.
- It exhibits resistance to chemicals.
- It exhibits strong adhesion to steel.

Surface Preparation

The reinforced concrete surfaces designated for coating must have undergone a curing period of four weeks and possess a minimum tensile strength of 1.5 N/mm^2, along with a minimum compressive strength of 25 N/mm^2. The surfaces to be coated must be devoid of water, dust, and loose particles. Contaminants such as oil and dirt must be eliminated. Metal and steel surfaces should be prepared through sandblasting, ensuring that no oil or rust remains.

Mixture

This product consists of three components and is provided as a set in accordance with the specified mixing ratio. To achieve a uniform mixture, the product temperature must be maintained between +15°C and +25°C. Component A (resin) should be blended separately using a low-speed mixer, after which component B (hardener) should be incorporated, ensuring adherence to the mixing ratio. Components A and B must be mixed with a low-speed mixer for a minimum of three minutes until a homogeneous consistency is achieved. Subsequently, component C should be gradually added and mixed with a mixer operating at 400-600 rpm until a uniform mixture is obtained.

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Application Details

The mixture should be permitted to stand for a period to facilitate the escape of entrained air. Subsequently, the material is poured into a designated open pouring area and applied. If required, a steel rod may be utilized to aid the flow of the grout. It should be poured in layers across extensive areas. The application thickness must range from 4 mm to 50 mm. Avoid application on wet surfaces. Molds should remain in place for a minimum of 18 to 24 hours.

- The material must be safeguarded against water, rain, external influences, and mechanical stress until it has fully cured.
- It is important to acknowledge that waiting times may be reduced during warm weather and extended in cold weather.

Consumption

Average weight of 2.00 kg/m^2 for each millimeter of thickness.

PACKAGING

15 kg (A: 2 + B: 1 + C: 12) arranged in tin buckets.

Shelf life

It must be safeguarded against unfavorable weather conditions. It should be kept in a dry, cool, and sealed environment (between +10 °C and +25 °C). Once opened and mixed, the product should be consumed promptly. In its unopened packaging, it has a shelf life of 12 months when stored in a dry location at a minimum temperature of +5 °C.

Attention

- In applications conducted in enclosed spaces, the environment must be adequately ventilated.
- In cold weather, packaging should be maintained at a minimum temperature of +15°C for no less than 24 hours before application.
- Following application, the surface must be safeguarded against water, rain, dew, snow, hail, frost, and comparable weather conditions until it is entirely dry.
- Avoid using open flames and refrain from smoking during application.
- Don appropriate gloves, goggles, and protective attire.
- In the event of skin contact, cleanse thoroughly with soap and ample water.
- Do not ingest, do not utilize empty packaging for food storage, and do not dispose of in fire.
- For professional use exclusively. Keep out of children's reach.

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