

EP-531

EPOXY REPAIR MORTAR



DESCRIPTION

- Solvent-free, moisture tolerant, thixotropic, two component, structural adhesive, anchoring and repair mortar.

INTENDED USES

- Planting sprouts on concrete and stone walls,
- Repair and insulation of wide cracks,
- Mounting and bonding all kinds of metal and steel parts to concrete and steel building elements,
- Covering the outer surfaces in crack injection and fixing the injection packers,
- Fixing guardrails and earthquake dampers in bridges and viaducts,
- Fixing the anchor elements,
- Used for filling holes and gaps in corners and edges.

PROPERTIES

- Easy to mix and apply.
- Suitable for dry and moist concrete surfaces.
- It is a high strength adhesive.
- Thixotropic: does not slip and is suitable for vertical and overhead applications.
- Does not contain solvent.
- It hardens without shrinkage.
- Good abrasion resistance, good chemical resistance.

SURFACE TREATMENT

- Mortar and concrete must be at least 28 days old (depends on the minimum strength value requirements).
- Surface strength (concrete, brick, natural stone) should be determined.
- The surface (all types) must be clean, dry and free from dirt, oil, grease, coatings and similar foreign substances and other contaminants.
- Steel surfaces must be free from rust.
- The surface must be solid and loose and weak parts must be removed.
- Before surface application, it can be primed with Primer **EP-10 General Purpose Transparent Epoxy Primer** or Primer **EPB-30 Epoxy Based Moisture Barrier Primer**.

TECHNICAL DATA

Appearance	: Black coloured paste
Application temperature	: (+5°C) ± (+30°C)
Density	: 1.70 kg/L
Pot life	: 40 minutes
Application thickness	: 2-30 mm
Time required to be recoated	: 18-24 hours
Full drying time	: 7 days
Mixing ratio	: 3/1
Compressive strength	: ≥40.0 N/mm ² (1 day) : ≥70.0 N/mm ² (7 days)
Flexural strength	: ≥17.0 N/mm ² (1 day) : ≥25.0 N/mm ² (7 days)
Bond strength formed by adhesion	: ≥4.0 N/mm ² (concrete) : ≥13.0 N/mm ² (steel)

- These values are obtained under laboratory conditions ((23±2) °C temperature, 50% relative humidity) and may differ due to worksite conditions.
- **MYFIX YILDIZ YAPI KİMYASALLARI SANAYİ VE TİCARET LİMİTED ŞİRKETİ** is not responsible for the application errors that may arise if the application conditions and precautions outlined above are not followed for the purpose of the product.

APPLICATION

- Components ready to mix: A + B components should be mixed for at least 3 minutes with a 400-600 rpm mixer and a suitable mixing tip until a homogeneous mixture is obtained.
- While mixing, care should be taken to avoid excessive air entrainment. The entire mixture should then be poured into a clean container and mixed for another 1 minute at low speed to minimize air entrainment.
- When used as a thin adhesive, the mixed adhesive should be applied to the prepared surface with the help of a spatula, trowel or notched trowel.
- When used as a repair mortar, a formwork should be used. When it is used to adhere metal profiles on vertical surfaces, it should be supported by props for at least 12 hours depending on the thickness of the adhesive applied (maximum 5mm) and room temperature.
- After hardening, its adherence should be checked by lightly hitting the surface with a hammer.

CONSUMPTION

- 1,5 kg/m² (for 1 mm application)

Yıldız Yapı Kimyasalları San. ve Tic. Ltd. Şti.

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WARNINGS AND RECOMMENDATIONS

- The implementer must have technical knowledge of epoxy.
- Before application, moisture should be measured and the process should be started. It should not be applied to areas containing high humidity.
- It should be stored in its unopened original package, in a dry and closed environment between (+5°C) - (+30°C).
- Protective gloves, goggles and protective clothing should be worn.
- The contact of the product with skin and eyes should be avoided. In case of contact with eyes, medical care should be taken.
- Pot life starts when resin and hardener are mixed. It is short at high temperatures and longer at low temperatures.
- When the break is taken or when the work is completed, hands should be washed with plenty of water, no food and drink should be consumed, and smoking should not be allowed.
- It should not be applied below +5°C. It is solvent free; it is not diluted with thinner.

QUALITY CERTIFICATES

- In accordance with TS EN 1504-6 standards.

PACKAGING

- 5 kg sets with a ratio of;
- Component A resin: 3.75 kg
- Component B hardener: 1.25 kg

SHELF LIFE

- Shelf life of an unopened package stored in a dry, cool place is 12 months from the date of manufacture. Opened packages should be stored under appropriate storage conditions and used within one week.

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