

## EPOX 305

Epoxy Based, Two Component, Solvent-Free, Anchoring and Adhesive Mortar

### Description

EPOX 305 is epoxy based, two component, solvent-free, fluid, anchoring and adhesive mortar.

### Fields of Application

- Fastening iron of masonry structure on concrete.
- To stabilize rail, machine, studs.
- To installation bolt and pins.
- Used as adhesive mortar for bonding metal parts to the surface.

### Features and Benefits

- Has excellent adhesion property. Provides excellent bonding between old and new structures.
- Protects steel against corrosion.
- Improves mechanical strength.
- Solvent-free.

### Technical Data

Content	Component A: Epoxy Resin Component B: Epoxy Hardness
Color	Grey
Density	1,7 g/cm <sup>3</sup>
Compressive Strength	30 N/mm <sup>2</sup> (1 day) 75 N/mm <sup>2</sup> (7 days)
Flexural Strength	17 N/mm <sup>2</sup> (1 day) 25 N/mm <sup>2</sup> (7 days)
Adhesion Resistance	3 N/mm <sup>2</sup> (on concrete) 3,5 N/mm <sup>2</sup> (on steel)
Pot Life	40 minutes
Temperature Resistance	-15°C to +90°C
Application Temperature	+10°C to +20°C
Full Curing	7 days
HS Code	3214.10.90.00.00

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## Application Procedure

### Preparation of Substrate

Application surface must be dry, clean and clean off materials which prevent bonding, such as dust, oil, rust and loose pieces. Cracks and pores must be repaired with suitable repair mortar.

### Application Method

Component A and B is stirred separately under low speed mixer, then Component B is slowly poured into Component A under the low speed mixer and continue mixing until obtaining a homogenous mixture without any agglomerate (approximately 3-4 minutes).

**For fresh concrete applied on old concrete;** Mixture should be applied on old concrete with a brush or roller. Depending on weather conditions, after curing in 5-40 minutes, fresh concrete is applied on it.

**For anchoring applications;** Oil, moisture and adherence reducing agents must be removed from the holes. **EPOX 305** should be filled into holes up to 2/3 of their depths by using mortar gun and iron should be placed in the hole by rotating clockwise. After that the mortar must overflow from the edges, otherwise, more mortar should be added in to the hole. In vertical anchorage applications at least 6 mm larger diameter drill bit than reinforcement should be used to open holes at desired depth. Holes should be cleaned appropriately and anchoring bars should be placed by turning.

**For general purpose bonding applications;** **EPOX 305** should be applied to each of the parts to be glued. Then the parts should be bonded to each other by pressing them. Do not move them until they are completely dry.

The mixture must be consumed within 30 minutes; later it cannot be applied due to jelling. Fully curing is done minimum 7 days. Application temperature should be between + 10°C to + 30°C. It is not recommended to apply on frost, windy and rainy days.

## Consumption

1,45 kg/m<sup>2</sup>/mm. Recommended application thickness is min. 2 mm / max. 30 mm.

## Packaging

A component: 3,75 kg + B component: 1,25 kg = 5 kg set

## Shelf Life

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12 months in original, unopened package.

### Storage

Store in dry area between +5°C and +35°C. Protect from heat, freezing and direct sunlight.

### Cleanup Information

Clean tools and equipment with water immediately after use. Dried material can only be removed mechanically.

### Cautions / Limitations

- Do not mix the product with hand or trowel. Use a drill for mixing.
- It may be harmful with skin contact.
- Do not apply in freezing conditions or during precipitation.
- Protect applied materials from rain, freezing, foot traffic and continuous high humidity until completely dry.
- Do not use when air and surface temperatures are below +10°C and above +20°C.

### Health and Safety

**Warning!** Cause eye and skin irritation. If eye or skin contact, get immediate medical attention. If swallowed, do not induce vomiting. Call a physician or poison control center. Never give anything by mouth to an unconscious person.

Wash hands thoroughly after handling. Wear protective clothing, gloves, eye and face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Dispose of unused, contents, container and other contaminated wastes in accordance with local, state, federal and provincial regulations.

Keep container closed when not in use. Keep out of the reach of children.

**Limited Warranty:** This product is subject to a written limited warranty which can be obtained free of charge from BAUMERK Company. Please contact with technical service department for further information and support.