

EPOX 311

Epoxy Based, Two Component, Solvent-Free, Adherence Between Old and New Concrete

Description

EPOX 311 is an epoxy based, two component, adherence bridge between old and new concrete, solvent free adhesive.

Fields of Application

- Concrete, natural stone, brick, wood, steel and metal surface,
- Adhesion between old and new concrete,
- Stabilizing the windows and doors,
- Bonding ceramic, tiles, granites on surfaces.

Features and Benefits

- Excellent adhesion on concrete and steel.
- Solvent free.
- Has high load carrying capacity.
- Excellent mechanical and chemical resistance.
- Can be applied without primer.
- Cannot be affected instant temperature changes.

Technical Data

| | |
|----------------------------------|---|
| Content | Component A: Epoxy Resin Component B: Epoxy Hardener |
| Color | Grey-Fume |
| Mixture Density | 1,55 g/cm ³ |
| Solid Content | 100% |
| Viscosity | 8500 cps |
| Compressive Strength (TS EN 196) | >50 N/mm ² (1 day) >80 N/mm ² (7 days) |
| Flexural Strength (TS EN 196) | >20 N/mm ² (1 day) >30 N/mm ² (7 days) |
| Tensile Strength (BS 6319-7) | >20 N/mm ² (1 day) >30 N/mm ² (7 days) |
| Elasticity Modulus (TS EN 13412) | >5000 N/mm ² (28 days) |

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|-----------------------------------|---|
| Adhesion Resistance | > 3 N/mm ² (on concrete) (7 days) > 3,5 N/mm ² (on steel) (7 days) |
| Application/Substrate Temperature | +10°C to +30°C |
| Service Temperature | -30°C to +80°C |
| Pot Life | 60 minutes |
| Drying Time | |
| <i>Fresh concrete pouring</i> | <i>Min 5 min / Max 40 min</i> |
| <i>Full curing</i> | <i>7 days</i> |
| HS Code | 3214.10.90.00.00 |

Application Procedure

Preparation of Substrate

Application surface must be dry, sound, fully cured, clean and clean off materials which prevent bonding, such as dust, oil, rust and remove loose pieces. Surface must be roughened mechanically by blasting, milling or sanding before application.

Application Method

Component A and B are stirred separately under low speed mixer, then Component B is poured into the Component A and mixed together for 3-4 minutes until obtaining homogenous mixture. Mixture must be applied in 30 minutes. Mixture should be applied on the surface with using a trowel or spatula as 0,5 - 1 mm thickness. Parts should to be bonded to each other by pressing them and waited stably until curing the adhesive. The product would be completely cured in minimum 7 days. During the application, ambient and surface temperatures should be between +10°C and +30°C. It is not recommended to application on rainy, windy and frost days. After application, the material should be protected from direct contact with water for a minimum 24 hours.

Consumption

0,60 kg/m². Recommended coating thickness is min. 0,5 mm / max. 30 mm.

Packaging

A component: 5 kg + B component: 2,5 kg = 7,5 kg set

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Shelf Life

18 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 industrial type solvents immediately after use. Dried material can only be removed mechanically.

Cautions / Limitations

- 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 +35°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.