EPOX CR 210

Epoxy Based, Two Component, Solvent-Free, Carbon Fiber Bonding Gel

Description

EPOX CR 210 is epoxy based, two component, solvent-free, thixotropic carbon fiber adhesive gel. It can be used in reinforcement applications where strength is required for bonding carbon fiber to the surface on vertical surfaces.

Fields of Application

- It is safely used for bonding carbon fibers to columns and beams in reinforcement systems.

Features and Benefits

- Has excellent adhesion property.
- Provides excellent bonding carbon fiber to structure.
- Has high chemical resistance.
- Thixotropic. No sagging.
- Can be used in vertical applications.
- No needed primers.
- Solvent free.
- Resistant to abrasion and friction.

Technical Data

Content	Epoxy Resin
Density	1,35±0,05 g/cm^3
Adhesion on Concrete	≥3,8 N/mm^2
Flexural Strength	≥40 N/mm^2
Compressive Strength	≥30 N/mm^2
Elastic Modulus	≥4000 N/mm^2
Reaction Temperature	80°C
Pot Life	30 minutes
Curing Time	
Touch dry	*6-8 hours*
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).
The mixture must be consumed within 30 minutes. The mixture is applied using a roller or spatula. The carbon fiber fabric is manually bonded to the surface, ensuring that no air pockets remain.

Consumption

Depends on usage area. The recommended theoretical consumption is 0.700–1.500 kg/m². For areas requiring filling, consumption is 2.0–4.0 kg/m².

Packaging

Component A 8 kg + Component B 2 kg = 10 kg set

Shelf Life

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

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- 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.

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