

EPOX 310

Epoxy Based, 3 Component, Solvent-Free, Repairing and Filling Mortar

Description

EPOX 310 is an epoxy based, 3 component, solvent free repairing and filling mortar with contain special aggregate.

Fields of Application

- In industrial floors, crane rail and airport concrete runaways.
- To repairing highway joints.
- The maintenance and repair of marine structures.
- Bridge bearings and filling the empty space between the steel reinforcement of reinforced concrete columns.
- Pile Head Re-profiling
- To repairing surface before epoxy and polyurethane floor coating applications.
- Repair works of reinforced concrete elements.

Features and Benefits

- Excellent adhesion on concrete and steel.
- Solvent free.
- Excellent abrasion and impact resistance.
- Excellent mechanical and chemical resistance.
- Can be applied without primer.

Technical Data

Content	Epoxy resin	
Mixture Density	1,90 – 2, 0 (g/cm ³ , 23°C)	(DIN EN ISO 2811-1)
VOC Value (%)	3,4 gr/lt / (% 0,2)	
Mixture Rate	A/B/C 2/1/12 (by weight)	
Abrasion Resistance (Taber)	115 mg 1000 cycles	(EN 1504-2)
Through Pull-off test adhesion strength	>2,0(1,5)b	(EN 1504-2)
Impact Resistance	Class III	(EN 1504-2)
Capillary absorption and permeability to water	<0,1 kg\m ² . h0,5	(EN 1504-2)

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Shore D Hardness	85±5	ASTM D 2240, DIN 53505
Compressive Strength (N/mm ²)	75 ~ 87	DIN 53504 TS 1967
Pot Life	40-60 minutes /23°C,200 g.	(DIN 16945)
Curing Time		
<i>Dust free drying</i>	<i>4-5 hours (at 23°C)</i>	
<i>Touch dry</i>	<i>7-8 hours (at 23°C)</i>	
<i>Full curing</i>	<i>7 days (at 23°C)</i>	
Chemical Resistance		
<i>sulfuric acid (H2SO4) %10</i>	<i>3</i>	
<i>sulfuric acid (H2SO4) %20</i>	<i>3</i>	
<i>hydrochloric acid (HCL) %10</i>	<i>3</i>	
<i>hydrochloric acid (HCL) %20</i>	<i>3</i>	
<i>nitric acid (HNO3) %10</i>	<i>3-2</i>	
<i>nitric acid (HNO3) %20</i>	<i>3-2</i>	
<i>Xylene</i>	<i>3</i>	
<i>Ethanol</i>	<i>2</i>	
<i>Solvent Naphtha</i>	<i>2-1</i>	
<i>(3*highly strength, 2* durable, 1*weak)</i>		
GTIP No	3907.30.00.00.00	

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. Appropriate **BAUMERK** primers should be applied before the application if needed.

Application Method

Component A and B are mixed under low speed mixer for 3-4 minutes, then component C is poured into the mixture and all of them mix for 3-5 minutes until obtaining homogenous mixture. Mixture must be applied in 60 minutes. Mixture should be applied on the surface with using a trowel as obtained maximum 50 mm thickness. Depending on the weather conditions 10-48 hours should be waited before layers. 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

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recommended to application on rainy, windy and frost days. After application, the material should be protected from direct contact with water for a minimum of 24 hours.

Consumption

Variable.

Packaging

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

Cautions / Limitations

- Protect applied materials from rain, freezing, heat, dry and continuous high humidity during 24-48 hours.
- It may be harmful with skin contact.
- Do not apply in freezing conditions or during precipitation.

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.

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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.