

Crocodile Structure Bonding Epoxy

Structure Repairing



Structural Bonding Epoxy Adhesive

Crocodile Structure Bonding Epoxy is a 2-component thixotropic epoxy. Used to coordinate structures and repair work. It hardens well and has minimal shrinkage at temperatures of 5 °C - 40 °C. When hardened, it will be a solid material that is very dense and very strong. Suitable for use as glue and mortar in repair work. Crocodile Structure Bonding Epoxy can connect and coordinate structures that need to receive force. Resistant to moisture and water and resistant to chemical corrosion. It can be used for attaching precast concrete components, bridge bearings with concrete and concrete cement surface repair work.

Product Features

- High initial and ultimate mechanical strength without shrinkage
- Very good adhesion to most construction materials
- Thixotropic: It can be used in vertical and overhead applications
- No primer needed, Easy to mix and apply
- Good resistance to corrosion by acids, alkalis, and chemicals.
- Good abrasion resistance and impact well.
- Natural grey color
- Can be used on both dry and damp surfaces.

Product Application

Structure and cement: concrete components, hard natural stone, ceramic, fiber cement, cement, brick, masonry, iron, steel, aluminum, wood, and glass

Color : Part A: Grey, Part B: Dark grey, Mixer: Grey



Application Instruction

Substrate Preparation

- Concrete: The surface must be dry, clean, and smooth, free from standing water. It should be devoid of cement dust, standing water, oil, grease, or any coating materials. Any loose debris must be removed to ensure an open and uncontaminated surface.
- Steel: The surface must be clean and of suitable quality for work. Using a sprayer and the vacuum to avoid dew point conditions.

Application

1. Open the cans of both parts A and B and stir before mixing the two parts.
2. Pour part B into all of part A. Mix well using a low-speed mixer for about 35 seconds mixes until you can see the color of Crocodile Structure Bonding Epoxy is a gray color. While mixing, try to create as few air bubbles as possible.
3. Take Crocodile Structure Bonding Epoxy and plaster it or apply it to the desired surface area. Should be completed within 1-1.5 hours.
 - 3.1 When used as a bonding adhesive for plastering: Apply the mixture to the prepared surface with a spatula, trowel, or by hand wearing gloves.
 - 3.2 When using for repair work: use partial formwork.
 - 3.3 When used for attaching steel sheets to vertical surfaces: use supporting materials. and hold it for at least 12 hours, depending on the thickness (not more than 5 mm.) and the temperature while working. When dry, check for adhesion using a hammer

Product information

- Composition : Epoxy resin
Ratio A:B by weight : 2:1
Physical Properties : Paste
Specific gravity : 1.70

Technical Data

Test Method	Standard	Evaluation
Setting Time	In House	30-40 min
Full Cure	In House	7 days
Compressive Strength	ASTM C 695	70.87 MPa
- 1 day		74.13 MPa
- 7 days		
Tensile Strength	ASTM D 638-14	20.40 MPa
- 1 day		28.15 MPa
- 7 days		
Bond Strength to Concrete (Concrete Failure)	In House	>2 N/mm ²
Bond Strength to Steel	In House	10-15 N/mm ²



Caution

- The mixing process should not exceed 45 seconds, as it may affect the consistency of the product.
- Use of rubber gloves, dust masks, eye protection, and other safety equipment is recommended.
- In case of contact with eyes, rinse immediately with water and seek medical advice.
- Apply with good ventilation. Do not inhale product.
- Keep out of reach of children
- Do not eat

Storage

- Store in a dry, shaded area with good ventilation and moderate temperature to prevent product degradation.
- Shelf life for 3 years from the date of manufacturing when kept in sealed condition.

Packing

Net weight : 2 kg/set

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