



# Crocodile Epoxy Bonding Agent

## Structure Repairing



### Epoxy to Bond between Old and New Concrete

Crocodile Epoxy Bonding Agent is a two-component solvent-free epoxy high-performance bonding agent. It's suitable for a wide range of building and infrastructure applications.

### Product Features

- Solvent-free and shrink-free.
- Easy to apply. Can be applied to dry or damp substrates or in low temperature.
- Long pot life, suitable where additional reinforcement needs to be installed.
- Excellent adhesion to most building materials
- Exhibits high mechanical strength and flexural strength.

### Application Area

- Used for bonding old and new concrete or other surfaces such as stone, fiber cement, brick, wood, and steel.
- Commonly used for bonding structures of old and new concrete such as roads, bridges, sidewalks, and factories
- Used for repairing wet or damp areas.

**Color:** Grey (Part A: White, Part B: Black)



## Application Instruction

### Surface Preparation

1. Clean the surface to be free of all dirt, dust, paint, and oil stains.
2. The concrete surface must be dense and strong. Sprinkle water on the concrete surface to moisten the surface first every time. But there must be no standing water areas where mold or algae occur. Should be cleaned with Crocodile M-Kill and left to dry for at least 4 hours.

### Application Method

1. Open the cans of both parts A and B and stir before mixing the two parts together.
2. Pour part B into all of part A. Mix well using a low-speed mixer for about 2-3 minutes (rotation speed approximately 600 rpm) mix until you can see the color of Crocodile Epoxy Bonding is a gray color.
3. Apply Crocodile Epoxy Bonding Agent or apply it to the desired surface area. Should be completed within 2-3 hours.
4. Bring new concrete or the surface you want to pour/stick when Crocodile Epoxy Bonding Agent is not yet dry.

**Coverage:** 4-5 sq.m./1 set (2 kg) or depending on the porous surface

### Physical Properties

Composition	:	Epoxy resin
Ratio A:B by weight	:	2:1
Specific gravity	:	1.45
Appearance	:	Paste

### Technical Data

Property	Standard	Result
Pot Life	-	70 min
Gel Time	-	95 min
Full Cure	-	7 days
Compressive Strength		
- 1 Day	ASTM D695	> 60 N/mm <sup>2</sup>
- 7 Days		> 85 N/mm <sup>2</sup>
Tensile Strength		
- 1 Day	ASTM D638-14	> 20 N/mm <sup>2</sup>
- 7 Days		> 25 N/mm <sup>2</sup>
Bond Strength by Slant Shear		
- 2 Days	ASTM C882	> 10 N/mm <sup>2</sup>
- 14 Days		> 35 N/mm <sup>2</sup>
Flexural Strength	ASTM D790	35-40 N/mm <sup>2</sup>
Bond Strength to concrete (Concrete failure)	In-house Method	>2 N/mm <sup>2</sup>
Bond Strength to steel	In-house Method	15-20 N/mm <sup>2</sup>



### **Caution**

- 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.
- Use within 3 years from the date of manufacturing.

### **Packing**

Net Weight : 2 kg

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