

EPOXIMORTAR 205 – Epoxy Resin Adhesive

DESCRIPTION

EPOXIMORTAR 205 is a solvent-free epoxy resin adhesive for bonding pre-cast concrete units together or steel units to concrete structures. It is formulated to have a paste consistency and is designed to be applied to the bonding surfaces before assembly. Normally the joint width is 1-2mm, however, EPOXIMORTAR 205 can be applied to vertical surfaces up to 10mm without slump.

USES

- Fill narrow load-bearing gaps such as between pre-cast concrete elements in bridge construction and steel plates to concrete in external steel reinforcement repairs
- Bond bolts and starter bars placed in the horizontal position
- Sealer for cement-based surfaces

ADVANTAGES

- Can be applied easily by trowel to horizontal or vertical surfaces without slump.
- Gives excellent adhesion between concrete/concrete and concrete/steel.
- Develops high mechanical strength without shrinkage stress.

METHOD OF USE

Surface preparation

Before mixing the adhesive, ensure that the surfaces to be bonded are placed approximately and that the joint can be closed and stressed within the open time.

Concrete surface is best prepared by light sand-blasting (removal of contamination and laitance) and should be dry.

Steel is best prepared by blasting or grinding just prior to applying the EPOXIMORTAR 205. If a time interval is anticipated, the steel should be primed with EPOXIPRIME 201.

Mixing

EPOXIMORTAR 205 is supplied in a pre-weighed unit. Stir Component A until homogenous (white).

Shake the Component B container gently to suspend the pigment. Open and pour it into the container A.

Mix mechanically at slow speed until the EPOXIMORTAR 205 is a uniform light-Grey colour. USE IMMEDIATELY.

Application

EPOXIMORTAR 205 can be applied to one or both surfaces. Ensure just sufficient adhesive is applied to fill the joint when closed.

Cleaning

Tools and equipment should be cleaned with solvent immediately after use.

HANDLING

Store the product in cool dry condition.

SAFETY PRECAUTIONS

EPOXIMORTAR 205 is non-flammable. EPOXIMORTAR 205 is also non-hazardous and non-toxic when cured but avoid any prolonged skin and eye contact during use by wearing suitable protective clothing.

PACKING

EPOXIMORTAR 205 is available in 4 kg set.

SHELF LIFE

The shelf life for EPOXIMORTAR 205 in unopened and undamaged packaging is 12 months.

SPECIFICATIONS (At 25°C)	
Specific Gravity	1.75 g/cm ³
Viscosity	Suitable for easy mixing and applications at temperatures 20-45°C
Curing	
• Initial Set	2 hours
• Full cured	7 days
Pot Life	75 minutes
Compressive Strength - 7 days	> 75 N/mm ²
Flexural Strength – 7 days	> 30 N/mm ²
Shear Bond Strength	
- 7 hours	5 N/mm ²
- 48 hours	15 N/mm ² Concrete failure
Elongation at break	1%

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