

BOND GUARD -EPOX

(Epoxy bonding agent New to Old)

DESCRIPTION:

BOND GUARD- EPOX is an epoxy based bonding agent for new to old. it provides a strong alkali and water resistance. BOND GUARD- EPOX has long tack free time of 120 minutes. This would give ample of time to lay concrete or mortar.

AREAS OF APPLICATION:

- For concrete repairs – spalled concrete of floors, columns, beams, chhajja, slabs, parapets etc.
- Repairs using cement plaster / guniting.
- As a bond coat – for bonding of new concrete to old concrete.

ADVANTAGES:

- Excellent adhesion to most building substrates.
- Improves flexural, tensile.
- Reduces chloride penetration.
- Improves bond strength with steel.
- Long tack free time of 120 minutes.

TECHNICAL SPECIFICATIONS:

Sr. No	Specifications	Technical Details
1	Base	Epoxy (Two component)
2	Appearance	Brownish
3	Coverage	2.7 – 3.7 m ² / kg depending upon surface
4	Mixing Ratio	A:B 2:1
5	Slant Shear Strength / Bond Strength	16 N/mm ² (ASTM C 882)
6	Tensile Strength @ 14 Day	18 N/mm ² (ASTM D 638/ ISO 527)
7	Compressive Strength @ 7 Day	55 N/mm ² (ASTM D 695/ C 881)
8	Elongation @ Break	3% (ASTM D 638)
9	Pot Life	120 min.
10	Density	1.70 kg/ltr @ 30° C

DIRECTION FOR USE:

- Surface preparation is vital for effective adhesion and bonding of BOND GUARD- EPOX. To start with free the surface from laitance, loose dust particles, oil, grease, and other dirt. Sand blast is recommended.
- Mix BOND GUARD- EPOX in 2:1 proportion and apply on clean and sound substrate.
- Apply BOND GUARD- EPOX on surface& wait till tacky to have better adhesion.

APPROVALS / STANDARDS:

ASTM C881 TYPE II GRADE 2 CLASS C

APPLICATION:

By brush or roller after surface preparation.

PACKAGING:

Part A	20 Kg
Part B	10 Kg

STORAGE & SHELF LIFE:

Store away from direct sunlight.1 year in tightly sealed container.

SAFETY PRECAUTIONS:

Wear gloves, goggles, and mask to avoid skin and eye contact. Work in well-ventilated areas to prevent inhalation of fumes. Avoid ingesting epoxy or hardener, and wash hands thoroughly after use. In case of skin contact, wash with soap and water, and seek medical attention if irritation persists.

Note: Setting time is varied with change in temperature, at low temperature or in moisture condition the third component C need to be added for fast setting.

