

NESCOAT® EPOBOND

Epoxy-Based Repair and Anchoring Mortar

DESCRIPTION

NESCOAT® EPOBOND is a two-component, solvent-free, epoxy resin-based structural repair, adhesive, and anchoring mortar. Component A is epoxy resin, and Component B is the hardener. It can be applied in a single layer with a thickness of 2-30 mm and has a thixotropic nature.

APPLICATION AREAS

- Structural concrete and crack repairs in both indoor and outdoor areas.
- Planting of steel reinforcement bars, filling holes, and voids.
- Fixing bolts, pins, and injection anchors.
- Bonding waterproofing and expansion tapes.
- Bonding concrete, stone, marble, metal, wood, brick, precast concrete, epoxy, polyester, glass, and PVC parts to each other or with other materials.
- Fixing floor and wall tiles.
- Bonding metal profiles to concrete and to one another.

ADVANTAGES

- Offers high early strength.
- Provides excellent adhesion to concrete and steel.
- Resistant to shrinkage and cracking.
- Impermeable to water and resistant to corrosive salts.
- Can be used in horizontal and vertical applications due to its thixotropic nature.
- Prevents sagging up to 10 mm in overhead applications.

SURFACE PREPARATION

The substrate must be clean, dry, and strong enough to support the application. If the substrate is concrete, it must be cured for 28 days and have a minimum compressive strength of 25 N/mm² and a tensile strength of 1.5 N/mm². In restoration works, weak plaster layers should be removed mechanically and completely cleared from the surface. Cracks should be widened to a "V" shape until solid areas are reached. If reinforcement bars are rusty, they should be cleaned, and anti-corrosion treatment should be applied. The surface must be free of contaminants like dirt and dust that could hinder adhesion.

For steel reinforcement bar planting, holes should be drilled to the required depth with a drill bit at least 6 mm larger than the bar diameter. The drilled holes should be cleaned using a wire brush and compressed air.

MORTAR PREPARATION

NESCOAT® EPOBOND is packaged in appropriate proportions for its two components.

- Component B (hardener) should be added to Component A (epoxy resin) and mixed with a low-speed mixer until a homogeneous consistency is achieved (approximately 3 minutes).
- Mixing should be done using a low-speed drill (400-600 rpm) with a mixing paddle; manual or trowel mixing is not recommended.
- If only part of the product is to be used, the mixing ratios should be strictly followed.
- The prepared mixture must be used within 45 minutes.
- Pot life shortens in hot weather and lengthens in cold weather.

APPLICATION

- The mortar should be applied using a spatula or steel trowel, pressing it into the damaged area and smoothing the surface. The application thickness should be between 2 mm and 30 mm.
- For steel reinforcement bar planting, the prepared mortar should be loaded into a suitable dispensing gun. The nozzle should be inserted to the bottom of the hole and withdrawn as the hole is filled with enough **NESCOAT® EPOBOND**. Steel reinforcement bars of the required size should then be inserted into the hole by turning them into place.
- Tools used during the application should be cleaned with thinner, and hands should be thoroughly washed with plenty of water after use.

SERVICE TIME

- The surface can be opened to service approximately 24 hours after application.
- For full strength, a curing time of 7 days is recommended.
- Curing time may shorten in high temperatures and extend in low temperatures.

CONSUMPTION

- 1,7 kg/m² (for 1 mm application thickness).
- A sample application is recommended to determine the exact consumption.

WARNINGS AND RECOMMENDATIONS

- The ambient and surface temperature during application should be between +5 °C and +35 °C.
- Ensure the application surface is dry with a maximum moisture content of 4%, but not wet.
- Avoid application if freezing weather conditions are expected within 24 hours after application.
- Do not apply under direct sunlight in hot weather or in strong winds.
- Condition Components A and B between 20-25°C before application.
- Excess material on the surface should be cleaned before it hardens; otherwise, it can only be removed by mechanical means after curing.

STORAGE AND SHELF LIFE

- The product should be protected from rain, moisture, intense sunlight, and frost.
- The shelf life is 12 months from the date of manufacture under proper storage conditions.
- Once opened, containers should be tightly resealed when not in use.

PACKAGING

5 kg set (A+B):

- Component A: 3,75 kg
- Component B: 1,25 kg

SAFETY RULES

- Appropriate protective equipment (clothing, gloves, goggles, mask) should be used during application.
- In case of contact with the skin, the affected area should be washed with plenty of water.
- For more detailed information, please refer to the Material Safety Data Sheet (MSDS).

QUALITY CERTIFICATES

- Complies with the ISO 9001:2015 quality management standard.
- Complies with the TS EN 1542 building materials standard.
- CE marked, compliant with EU standards.



TECHNICAL SPECIFICATIONS

Feature	Value
Appearance	Component A: Cream Paste Component B: Black Liquid
Mixing Ratio	A/B= 3/1
Compressive Strength (7d)	≥ 75 N/mm ²
Flexural Strength (7d)	≥ 25 N/mm ²
Adhesion Strength	≥ 3 N/mm ²

*The values mentioned above are valid for +23°C and 50% relative humidity.

LEGAL DISCLAIMER

The information in this document has been prepared based on NESCAOT's laboratory tests and field experience. NESCAOT is not responsible for any adverse outcomes resulting from the use of the product outside of its intended purpose or failure to comply with the conditions stated above.