TECHNİCAL DATA SHEET

NESCOAT® BETOFIX
Aerated Concrete Masonry Mortar

DESCRIPTION

NESCOAT® BETOFIX is a cement-based ready-mix mortar specifically developed for constructing walls using thin-joint applications with high water-absorption building materials like aerated concrete.

APPLICATION AREAS

- Suitable for both indoor and outdoor use.
- Designed for wall construction using high water-absorption materials like aerated concrete and applications requiring thin joints.

ADVANTAGES

- Ensures strong walls due to its high adhesion strength.
- Offers ease of application with extended working time.
- Saves labor and time thanks to its ready-mix formulation.
- Facilitates transportation and storage with its packaged structure.
- Minimizes material consumption with thin-joint application.
- Easy to prepare in required amounts, reducing waste to a minimum.

SURFACE PREPARATION

The base surface must be smooth, clean, dry, and strong enough to support the application. Remove mold oils, dirt, and dust that may prevent adhesion. Significant cracks and surface irregularities should be repaired with the same material or NESCOAT repair mortars, ensuring an even surface. The surface should be moistened to avoid water pooling.

MORTAR PREPARATION

Gradually add 25 kg of **NESCOAT® BETOFIX** to 6-6.5 liters of clean water and mix with a low-speed mixer for approximately 3 minutes until a lump-free consistency is achieved. If necessary, adjust the consistency by adding a small amount of water or product. The prepared mortar should be used within 2 hours. Do not add water or product to hardened material for reuse.

APPLICATION

- Apply the mortar evenly on the horizontal and vertical surfaces of the building elements using a steel or notched trowel.
- Align the first row of materials with a string and check its level before placement.
- Ensure proper placement by gently tapping the materials from the top and sides for a secure fit.
- Place subsequent rows with joints offset to the center of the materials below.
- Maintain joint gaps of 2–3 mm.
- Remove excess mortar with a trowel and smooth the surface.

DRYING TIME

- Surface drying occurs within 1 day at 23 °C and 50% relative humidity. Full curing is achieved in 3 days.
- Drying times are shorter at higher temperatures and longer at lower temperatures.
- The structure is recommended to wait 7 days to reach full load-bearing capacity.
- Protect the structure from impacts during this period.

CONSUMPTION

- Approximately 3 kg/m².

The specified consumption amounts may vary depending on the surface and application conditions. A sample application is recommended for accurate consumption measurement.

WARNINGS AND RECOMMENDATIONS

- The ambient temperature and surface temperature during application should be between +5 °C and +35 °C.
- After application, the product must be protected from rain and moisture caused by external factors until it sets.
- Avoid application if freezing weather conditions are expected within 24 hours of application.

STORAGE AND SHELF LIFE

- The product should be protected from rain, moisture, intense sunlight, and frost.
- Do not stack more than 2 pallets on top of each other.
- The shelf life is 12 months from the date of manufacture under proper storage conditions.
- Opened packages should be tightly sealed and consumed within one week if not used immediately.

PACKAGING

25 kg kraft bag (PE reinforced)

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 998-2 building materials standard.
- CE marked, compliant with EU standards.

TECHNICAL SPECIFICATIONS

Feature	Value
Appearance	Gray or White Powder
Particle Size	Dmax: 0.5 mm
Hardened Mortar Void Bulk Density	1400 ± 200 kg/m³
Adjustability Time	10 ± 5 min
Compressive Strength	≥ 10 N/mm²
Bond Strength	≥ 0.3 N/mm²
Capillary Water Absorption Value	< 5 kg/m²h$^{0.5}$
Water Vapor Permeability Coefficient (μ)	5/20
Reaction to Fire	A1

***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.