

NEXA SMART FLEX

Flexible two-component mortar for waterproofing

Description:

NEXASMART FLEX is a two-component mortar designed for the flexible waterproofing of concrete and masonry under both direct and backpressure. It is UV resistant and certified for potable water. This product includes a single-component concrete repair mortar for leveling irregular or defective substrates.

Approved Uses

Waterproofing and protection of:

- NEXASMART FLEX waterproofs structures that may experience movement due to expansion or contraction, and resists negative and positive pressures in subgrade applications below the water table.
- Waterproofing of humid areas such as bathrooms, kitchens, planters, balconies exposed to the elements, or beneath tiles (tiles can be installed directly on top).
- Potable water tanks.
- Protection against carbonation.

Advantages

- Durability: Treatments hardened to a thickness of 0.0787 inches (2 mm) can accommodate movements exceeding 0.0236 inches (0.6 mm).
- Resists both negative and positive pressures in subgrade applications.
- High flexibility.
- Resistant to freeze-thaw cycles.
- Permeable to water vapor.
- Slows carbonation.
- UV resistant.
- Certified for potable water applications.

Application

- The substrate must be firm, free of impurities and contaminants (such as oils, grease, gypsum, or cement slurries). If necessary, clean using high-pressure water or mechanical methods.
- Before using NEXASMART FLEX, moisten the substrate to prevent overly fast drying of the product, ensuring no puddles of water remain.
- This is a two-component product: 55.12 lb (25 kg) of powder mixed with 19.84 lb (9 kg) of resin.
- Mix using a slow agitator (approx. 400 rpm) for 3 minutes until a homogeneous, slightly viscous paste is achieved. Let the mixture rest for 5-10 minutes, then stir again for 2 minutes.
- Apply the first 0.0394 pulgadas (1 mm) thick coat with a brush, roller, or airless spray onto the pre-moistened surface. If the material begins to harden, do not add water to the mix; instead, re-moisten the substrate.

- The second coat, also 0.0394 pulgadas (1 mm) thick, should not be applied until at least 1 hour after the first coat (this time may vary based on environmental conditions). It is not necessary to re-moisten the surface for the second coat.
- Do not apply NEXASMART FLEX at temperatures below 41 °F (5 °C).
- Allow NEXASMART FLEX to cure for a minimum of 7 days before permanent water contact.
- Apply in thin coats, with a maximum of 0.02-0.03 lb/ft² (100-150 g/m²) per coat.

Consumo

- 0.31-0.41 lb/ft² (1.5-2 kg/m²) required in 2 coats.

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MORTARS FOR WATERPROOFING

Presentation

- Resin: 19.84 lb (9 kg).
- Powder: 55.12 lb (25 kg).

Colors

Gray

Safety and Hygiene

NEXA SMART FLEX is not toxic, but due to its cement content, it is alkaline. Avoid contact with eyes and skin. In case of eye contact, rinse immediately with plenty of water and consult a doctor if irritation persists. Gloves and goggles must be worn during handling. For additional safety information, consult the safety data sheet.

Container Stability

12 months in a dry place at 41 °F to 77 °F (5 °C to 25 °C).

NEXA SMART FLEX must be stored away from sunlight, moisture, and frost.

Transportation, Preventive measures and Storage

Refer to the safety data sheet.

The information provided serves as a recommendation based on laboratory tests and our current knowledge. Different conditions on construction sites may result in variations from the given information; therefore, our warranty is limited to the supplied product. For any questions, please contact our technical department.

Technical data of the product

CONCEPTS	RESULTS
Appearance	Cement gray
Density	103.04 - 106.18 lb/ft ³ (1.65 - 1.70 g/cm ³)
Application Time	30-40 minutes
Initial Hardening	60 minutes
Mixing Ratio	19.84 lb resin / 55.12 lb powder (9 kg resin / 25 kg powder)
Negative Pressure Resistance	145 psi (10 bar)
Positive Pressure Resistance	145 psi (10 bar)
Maximum Granulometry	0.0236 inches (0.6 mm)
Elongation at Break	20%
Tensile Strength	130.54 psi (0.9 N/mm ²)
Adhesion	261.08 psi (1.8 N/mm ²)
Potable Water Certification	Yes

Technical data of the membrane

CONCEPTS	RESULTS
Appearance	COMP. A: Powder COMP. B: Milky liquid
Density	COMP. A: 84.34 lb/ft ³ (1.35 g/cm ³) COMP. B: 65.55 lb/ft ³ (1.05 g/cm ³)
Packaging	COMP. A: 55.12 lb (25 kg) bag COMP. B: 19.84 lb (9 kg) container

For more information about our products and systems, as well as technical documentation downloads or safety data sheets, please visit our website or contact us.

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