

CEM PRO FLEX 100 W

Two-component hydraulic waterproofing mortar
for concrete protection and waterproofing



PRODUCT DESCRIPTION

- CEM PRO FLEX 100 W is a flexible waterproofing mortar supplied as a pre-dosed two-component kit. It consists of a cement-based powder mortar (Component A) and a resin emulsion (Component B).
- After mixing, the mortar can be applied by roller, brush, trowel, or spray.
- **CEM PRO FLEX 100 W** is certified as a concrete surface protection coating in accordance with EN 1504-2, and as a liquid-applied water-impermeable cementitious product in accordance with EN 14891.

FIELDS OF APPLICATION

1- Protection of Concrete Structures :

- Protection of concrete surfaces, bricks, cement blocks, and mosaics to prevent capillary cracking.
- Protection of concrete against atmospheric aggression, carbonation, and aggressive environments (e.g., pure water, selenitic water, etc.)
- Acts as a barrier against water and chemical ingress.

PRODUCT ADVANTAGES

- Easy and flexible application.
- Good protection of concrete against carbonation.
- Excellent adhesion on sound substrates.
- Water vapor permeability.
- Resists water under hydrostatic pressure.
- Under-tile waterproofing.

2- Waterproof Coating :

- Waterproofing of interior basement walls against humidity or water under pressure.
- For roofs, balconies, wet areas, and underground water tanks.

3- Under-Tile Waterproofing :

For use beneath tiles such as showers, laundry rooms, kitchens, balconies, fountains and similar areas ...

PRODUCT INFORMATION

Packaging	Component B	5 kg jerrycan
	Component A	15 kg bag
	Component A + B	20 kg ready-to-mix set
Composition	Component B	Acrylic resin emulsion
	Component A	Cement, mineral fillers, and additives
Appearance/Color	Light Grey	
Storage	12 months in original unopened packaging, stored between +5 °C and +30 °C	
Consumption	2 to 4 kg in two coats for a thickness of 1.5 to 2.5 mm	
Waiting Time Between Coats	2 to 4 hours depending on temperature	
Accessibility	After 24 hours	
Application Temperature	Apply between +8°C and +35°C	



PRODUCT CHARACTERISTICS & PERFORMANCES

Mixing Ratio	Component A: B = 3:1 (by weight)
Mixing Time	3 to 5 minutes using an electric mixer
Pot Life / Working Time	30 to 40 minutes
Solids Content (ISO 3251)	76.8%
Density (ISO 2811-1)	1.78 g/cm ³
Coating Thickness	Approx. 1 mm
Elongation at Break (ISO 527-3)	25%
Tensile Strength (ISO 527-3)	0.7 N/mm ²
Adhesion Strength (ISO 4624)	≥ 0.5 MPa
Initial Adhesion (EN 14891)	≥ 0.5 MPa
Adhesion After Water Contact (EN 14891)	≥ 0.5 MPa
Adhesion After Thermal Aging (EN 14891)	≥ 0.5 MPa
Water Permeability Coefficient (EN 1062-3)	0.03 kg/m ² /h ^{0.5}

APPLICATION

Substrate Preparation:

- The substrate must be dry, clean, and free of oil, dust and grease.
- Remove any existing layers of paint, cement, or other surface treatments.
- The substrate should be as level and even as possible.
- In case of doubt, please consult our technical team.

Application Procedure :



- Pour Component B (Liquid) into a clean mixing container, gradually add Component A (Powder), and mix using a low-speed electric mixer until a homogeneous mixture is obtained.

- CEM PRO FLEX 100 W should be applied in 2 coats, manually using a brush, roller or airless spray.
- Ensure an even layer thickness for each coat, excessive thickness may lead to cracking.
- Apply the second coat after the first coat has hardened.

Cleaning of Tools and Equipment:

- Clean all tools and equipment with clean water immediately after use.

RECOMMENDATION

- Stir the contents thoroughly before use.
- Do not add water; the product is ready to use.
- Wearing appropriate personal protective equipment (gloves, goggles) is recommended.

LEGAL NOTICE

- The technical data values provided are average statistical values and may be subject to change without prior notice. This document is non-contractual. No liability will be accepted for damage resulting from improper use.

REFERENCE DOCUMENTS

- EN 1504-2/ EN 14891/ EN 1062-3.
- ISO 4624/ ISO 527-3/ ISO 2811-1/ ISO 3251.
- Test reports : CETEC No 871/2024.
- Test reports: CTMCCV No LDL 236/24