Construct a sustainable future

CEMIMAX WPM 107

Flexible cementitious waterproofing membrane

Description:

Cemimax WPM 107 is a two-component flexible cement-based waterproof coating blended with synthetic resin, premium cement and well-graded mineral fillers.
Once fully mixed, the product turns into a smooth, workable slurry applicable via brush, roller or professional spraying apparatus.
Application can be conducted on damp base surfaces.
After full curing, the formed waterproof film features outstanding flexibility, long-term weather resistance and robust bonding with most construction substrates. Its proprietary chemical structure delivers a vapor-permeable yet water-tight coating, which effectively spans micro hairline cracks.

Typical Uses:

- Waterproofing for basement retaining walls and elevator sump pits
- Sealing works for potable water tanks, reservoirs, culverts, storm drainage channels, canals, water retaining and water exclusion structures
- Waterproof layer for kitchen and washroom areas
- Anti-leakage treatment for balconies and planting troughs
- Corrosion & waterproof protection for concrete structures in coastal marine environments
- Impermeability coating for swimming pools and decorative water features
- Waterproof treatment for prefabricated gable walls
- Waterproofing of reinforced concrete flat roofs (concealed roof refurbishment) and rain gutters
- Base waterproof primer for exterior walls prior to cladding installation

Advantages:

- Pre-formulated complete kits, simple mixing and on-site application
- Superior impermeability, capable of resisting high hydrostatic pressure
- Strong adhesion to diverse substrates: concrete, masonry, ceramic tiles, natural & artificial stone, cement fiber boards, steel, galvanized metal, copper, PVC and more
- High elasticity, bridging fine cracks up to 2mm wide
- Excellent resistance against frost cycles and de-icing salts
- Free of chloride ions and corrosive salts that trigger surface efflorescence
- Non-toxic formulation, safe for drinking water storage facilities and marine construction scenarios
- Surface tolerates light pedestrian traffic after curing
- Compatible with damp substrates without full pre-drying
- Stable performance under long-term outdoor weather exposure
- Built-in resistance to algae and fungal growth

Subfloor Preparation:

Base surfaces must be solid, clean and free of dust and loose debris. All laitance, oil stains, grease, mould release agents and concrete curing compounds shall be eliminated with wire brushes, scabblers or other mechanical tools. Ensure adequate drainage gradient to avoid standing water.
Cement-sand fillets are recommended at all internal and external corners to facilitate full coverage of the waterproof coating.
Dampen the base surface before coating application, making sure no standing water accumulates on the surface.
If the waterproof film will remain exposed without cladding, apply Cemimax Base Consolidating Primer first to reinforce the substrate prior to laying Cemimax WPM 107.

Mixing Instructions:

Pour Component A (liquid) into a clean mixing bucket. Gradually add Component B (powder) while stirring with a low-speed electric mixer until a homogeneous, lump-free slurry forms.
Let the mixed slurry rest for 5 minutes, then manually stir thoroughly right before use.

Application:

For horizontal and vertical substrates, the slurry can be applied using a roller, brush, or spray gun. Take care to avoid trapping air within the membrane.
Apply the initial layer of WPM 107 and let it dry. Ensure that all seams and angled areas are thoroughly coated, preferably using a brush. Allow the membrane to dry for about 2 hours before putting on the second layer.
After the second coat of waterproofing membrane has been applied, allow a minimum curing period of 12 to 72 hours before installing the screed and beginning the water test. If the water test is to last more than 4 hours, a curing period of at least 72 hours is advised.
For exterior use, Cemimax Fibremesh should be included. Apply the first coat of WPM 107 and immediately embed the Cemimax reinforcing mesh. Apply subsequent layers at a 90-degree angle to the preceding coat, making sure that all joints and corners are well covered. Cemimax Fibremesh is also suggested at joints and corners where movement is anticipated. For long-term durability, a protective screed or topcoat should be applied over the membrane.

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Packing & Coverage:

Package Specifications

A : B=15kg : 21kg / 36kg per set

Material Consumption

0.85 kg per square meter per single coat;
approximately 1.7 kg/m^2 for standard two-coat application, subject to actual substrate roughness on site.

Wet Film Thickness

0.7 ± 0.1 mm per coat

Technical Data:

Product Type	Cementitious Modified Co-Polymer
Mix components	Part A : whitish liquid / Part B :greyish powder
Mix Ratio (liquid:powder)	1:1.4
Mixed Density	1550kg/m^3
Mixed Color	Grey
Pot Life at 35 °C	Approx. 1 hour
Tack Free Time	Approx. 2 hours depending on temperature and humidity
UV Resistance	>60
Shore A Hardness (ASTM D2240:2005)	Good
Tensile Strength (ASTM D412:2006ae2	>1.6N/mm^2
Elongation at Break (ASTM D412:2006ae2)	>150%
Adhesion to Substrate (ASTM D4541:2009)	>1.20MPa
Crack Bridging (ASTM C836: 1989a)	2mm
Water Penetration Test (DIN 1048 Part 5: 1991)	5 Bar (50m water pressure or 5 kgf/cm^2
Water Vapour Transmission (ASTM E96:1993)	<0.33 g/m/hour
Special Properties (SS 345: 2001)	Algae and fungus resistant

Storage:

Unopened products stored in cool, dry warehouses carry a 12-month shelf life.

Health & Safety:

Protective gloves and safety goggles are compulsory during construction. Rinse skin or eye splashes thoroughly with clean running water; seek medical treatment if persistent irritation occurs. Minimize dust generation when handling powder components; wear lightweight dust masks if heavy dust cannot be avoided.