



FINOMIX®
DRY MORTARS

Technical Data Sheet

Release 4: 17/09/2026

hydroseal 5000

brushable cementitious sealing slurry

- Waterproofing against positive and negative pressure
- Protection of concrete structures against carbonation
- Strong adhesion to the substrate
- Excellent workability



HYDROSEAL 5000

brushable cementitious sealing slurry

DESCRIPTION

One-component, cement-based mortar, modified with polymer resins and silica fume, for waterproofing concrete structures and masonry against moisture and water ingress. It exhibits high adhesion to substrate and excellent waterproofing properties against positive and light negative (up to 1 atm) hydrostatic pressures. It is classified as coating mortar (C) for the protection of concrete structures according to European standard EN 1504-2.

APPLICATIONS

HYDROSEAL 5000 is applied for the waterproofing and protection in the following cases:

- Basements.
- Water tanks.
- Foundations.
- Lift rooms.
- On surfaces like concrete elements and masonry (bricks, cement blocks, stone), in old and new structures.

PROPERTIES / ADVANTAGES

- Excellent water-sealing performance.
- Suitable for waterproofing against positive and negative pressure.
- Very good resistance to solvents and alkalis.
- Protects concrete structures from carbonation due to CO₂ ingress.
- Excellent adhesion to mineral-based substrates such as concrete, brick, and render.
- It doesn't corrode the steel-reinforcing elements of concrete.
- Mixing only with water. - Easy to apply.

HARMONIZED STANDARDS / REGULATIONS

- EN 1504-2:2004: Cement-based product for the protection of concrete surfaces - Coating (C). Meets the requirements of the standard.
- EN 1504-9:2008: Products and systems for the protection and repair of concrete structures - General principles for the use of products and systems. Meets the requirements of the standard according to Principle 2 (MC - Moisture Control) and 8 (IR - Increasing Resistivity).

- Regulation (EC) No. 305/2011: CE marked product with Declaration of Performance (DoP): HS5000G/CPR-7-13/046/10-2013 and HS5000W/CPR-7-13/047/10-2013, for grey and white product respectively.

APPLICATION INSTRUCTIONS

- The substrate must be clean and free from dust, grease and other loose materials.
- Any deteriorated concrete or render must be removed by suitable means (manual, mechanical, sandblasting or waterblasting) until a sound and clean substrate is obtained. Any necessary repairs should be carried out using appropriate **FINOMIX** repairing products.
- Any active leaks must be sealed in advance using the ultra-fast setting mortar **WATER•PLUG**.
- Any protruding reinforcement bars should be cut back to a depth of 2-3 cm and the cavities repaired using suitable repair mortars (**RP 4000** or **RP 4100**) or by using the polyurethane sealant **PU•FIX**.
- For waterproofing over renders, they must exhibit adequate adhesion to the substrate and be fully cured.
- Prior to application, surfaces should be saturated with water. Excess water must be allowed to evaporate or be removed using compressed air.
- The content of the bag is gradually added to the appropriate amount of clean water under continuous mixing until a homogeneous, lump-free is formed. Mixing is recommended using a low-speed electric drill (approx. 300 rpm). The mixture should then be left to mature for approximately 5 minutes and subsequently remixed briefly.
- The material is applied by brush or trowel in 2 or 3 layers, depending on the required waterproofing performance. Each subsequent layer is applied once the previous one has sufficiently dried (approximately 2-3 hours) but before it has fully hardened. If necessary, the previous layer may be slightly re-dampened, taking care not to wash it out. Successive layers should be applied crosswise to ensure full coverage.
- Particular attention should be paid to corners, recesses and edges.
- The freshly applied final surface must be protected from extreme weather conditions and heavy rainfall for at least 24 hours.
- The final surface must be allowed to cure for approximately 5-7 days before being subjected to stress. For immersion in water, a curing time of at least 2 days is sufficient.

ELASTIFICATION

The addition of 3-6 kg of **FINOFLEX** elasticizing resin, replacing part of the mixing water of **HYDROSEAL 5000**, significantly enhances the properties of the final product, such as abrasion resistance, adhesion, water-tightness, elasticity, etc.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened material can only be mechanically removed.

RECOMMENDATIONS

- Temperature during application should be between +5°C and +35°C.
- The use of excessive water adversely affects the properties of the product.
- Do not mix **HYDROSEAL 5000** with dirty or salty water and do not add cement or aggregates..
- Postpone application if high temperatures or frost are expected within the first 24 hours after application.
- Do not apply the product on unstable substrates or on surfaces subject to intense shrinkage-expansion and movement.
- After application, the fresh surface must be protected from rapid water evaporation.

TECHNICAL CHARACTERISTICS

PRODUCT CHARACTERISTICS

Appearance	cementitious powder
Colour	grey / white
Bulk density	1.30 ±0.05 kg/lit

APPLICATION CHARACTERISTICS (+23°C / 50% R.H.)

Mixing ratio	26% b.w. (6.50 kg water / 25 kg bag) (1.30 kg water / 5 kg bag)
pH	> 11
Density	1.85 ±0.05 kg/lit
Pot life	60 min (22°C)
Application temperature	minimum: +5°C / maximum: +35°C
Time between successive layers	2-3 h
Consumption	approximately 1.2-1.5 kg/m ² for a 1 mm thick layer

PERFORMANCE CHARACTERISTICS

Adhesion to concrete (EN 1542, MC 0,40)	≥ 1.5 N/mm ²
Compressive strength (EN 12190)	≥ 30.0 N/mm ²
Flexural strength (EN 196-1)	≥ 6.5 N/mm ²
Capillary absorption and permeability to water (EN 1062-3)	≤ 0.085 kg·m ⁻² ·h ^{-0.5} (Requirement: w < 0.1 kg·m ⁻² ·h ^{-0.5})
Permeability to water vapour (EN ISO 7783)	S _D < 1m (Class I: S _D < 5 m)
Permeability to CO ₂ (EN 1062-6)	CO ₂ S _D > 50 m

Note: Measurements were conducted in a laboratory environment. The varying conditions present on-site (temperature, humidity, ventilation, substrate absorbency) may affect the material's properties.

SAFETY PRECAUTIONS

- The product contains cement which has an alkaline reaction with water and is classified as irritant.
- Always wear appropriate personal protective equipment for eyes and skin (protective clothing, gloves and goggles).
- If skin contact occurs, rinse well with plenty of clean water.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Refer to the product's Safety Data Sheet for further information on safe handling and precautions.
- **PRODUCT FOR PROFESSIONAL USE ONLY.**

PACKAGING - STORAGE

Available in:

- 5 kg plastic bags
- 25 kg paper bags.

Storage: 12 months from production date in original, sealed packaging, protected from direct sunlight and moisture.

LEGAL NOTICE

The technical characteristics and recommendations for the use and application of the **FINOMIX** range of products are based on the knowledge and experience of the company. The above information shall be considered merely indicative and subject to confirmation after long-term practical application. For this reason, anyone who intends to use the product must

ensure that it is suitable for the envisaged application. Since the specific site conditions during the applications are beyond the control of our company, the user alone is fully responsible for any consequences deriving from the use of the product. **FINOBETON S.A. (FINOMIX)** has the right to modify the properties of its products without prior notice. This release voids any previous publications issued for this technical specifications sheet.