

water•plug

ultra fast-setting cementitious water plugging mortar

- Ultra-fast setting and drying
- Watertight under high negative pressure
- Very high mechanical strengths
- Non-shrinking formula
- Excellent adhesion on concrete



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DESCRIPTION

One-component, ultra fast setting and hardening, cement-based mortar, for sealing water leakages in concrete structures, even under pressure, as well as for ultra-fast anchorings.

Once mixed with water it forms a thixotropic paste that sets within seconds regardless the ambient conditions and which doesn't wash out in the presence of water under pressure for as long as it takes to set.

It exhibits excellent adhesion on concrete and zero shrinkage.

APPLICATIONS

WATER•PLUG is suitable for:

- Instant sealing of water leaks under pressure in concrete tanks and swimming pools.
- Sealing water leakages in underground structures, underground tunnels, elevator shafts, sewers.
- Sealing of cracks and holes, as well as for the sealing of rigid joints between walls and floors.
- Ultra-fast anchoring.

Also used for fast repairing works of masonry or concrete prior to the application of brushable cementitious sealing mortars (HYDROSEAL HS 5000, HYDROSEAL HS 6000•1K, HYDROSEAL HS 7000 FIBRO•FLEX or HYDROSEAL ELASTIC).

PROPERTIES / ADVANTAGES

- Ultra-fast setting and drying.
- Non-shrinking formula.
- Very high compressive and flexural strength.
- Watertight under negative water pressure.
- Thixotropic.
- High resistance to alkalis.

APPLICATION INSTRUCTIONS

- Deteriorated and loose concrete must be removed until the substrate is solid, strong and rough.
- Cracks, joints and cavities have to be widened and deepened in order to enhance adhesion of the product.

- Soak the substrate with water. Allow excess water to evaporate or remove it using compressed air.
- Add **WATER•PLUG** into 28-30% of clean and cold water (<20°C) and mix rapidly with a spatula or a trowel until a lump-free homogenous paste is formed.
- Because of the ultra-fast setting of the product you should only prepare quantities that can be applied within a period of a few seconds.
- Apply the mixture using a spatula or by hand (always wear protective gloves).
- When sealing leakages under pressure press the product into the leak for about a minute until it sets completely.
- Remove excess material by scraping it away using a spatula.
- It is recommended that the final surface be coated with **HYDROSEAL HS 5000** or alternatively, if there are cracks in the substrate, with **HYDROSEAL HS 7000 FIBRO•FLEX** or **HYDROSEAL ELASTIC**.

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 +30°C.
- Do not add cement, aggregates or other additives.
- Do not mix the product with dirty or salt water.
- Do not add more water than the recommended dosage.
- Cold water can delay product setting slightly. Do not use hot water for mixing as it will shorten setting time significantly and it will be impossible to apply it.
- Do not add water when the mixture begins to set.

TECHNICAL CHARACTERISTICS	
PRODUCT CHARACTERISTICS	
Appearance	cementitious powder
Colour	grey
Bulk density	1.20 ±0.05 kg/lit
Chloride ion content (EN 1015-17)	< 0,05%
APPLICATION CHARACTERISTICS (+23°C / 50% R.H.)	
Mixing ratio	28-30% b.w. (1.4-1.5 kg water / 5kg bag)
pH	> 11
Initial setting time	30-45 minutes (22°C)
Final setting time	60 minutes (22°C)
Starts setting	immediately after mixing with water
Application temperature	minimum: +5°C / maximum: +30°C
Consumption	approximately 16-17 kg/m ² for a 1cm thick layer
PERFORMANCE CHARACTERISTICS	
Compressive strength after 28 days (EN 12190)	≥ 30.0 N/mm ²
Flexural strength after 28 days (EN 196-1)	≥ 6.5 N/mm ²

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.
- Consult product's Safety Data Sheet for further instructions on safety handling.
- **PRODUCT FOR PROFESSIONAL USE.**

PACKAGING - STORAGE

Available in:

- 5kg plastic bags.

Storage: 6 months from production date, if stored in original, sealed container, 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.

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