

AQUA BARRIERA FUTURA

One-component cementitious waterproofing mortar

Waterproofing balconies, terraces, bathrooms, showers, and swimming pools before laying ceramic coating. Waterproofing concrete structures, renders, and cementitious screeds.

AQUA BARRIERA FUTURA is a one-component, cementitious waterproofing membrane with cementitious binders, selected fine-grained inert materials and special highly-flexible acrylic polymers. When mixed with water, it forms a paste with excellent workability which is easy to apply with a trowel, roller or brush, and which may also be applied on vertical surfaces without slumping. AQUA BARRIERA FUTURA also bonds extremely well to all surfaces in concrete, masonry, ceramic and marble, if they are sound and clean.

ADVANTAGES

- Excellent workability and certified performance characteristics (with 4,5-5,0 litres of mixing water).
- Certified crack-bridging capacity, including at low temperatures (-15°C).
- Guaranteed, durable waterproofing of substrates with just a 2 mm thick layer.
- Excellent adhesion on numerous types of substrate if prepared according to specification: no demolition work required.

RECOMMENDATIONS

- Do not add cement, inert materials or gypsum.
- Do not apply AQUA BARRIERA FUTURA at a thickness of more than 2 mm per layer.
- Never apply the product on substrates saturated with water.
- Do not apply if the temperature is lower than +5°C.
- Do not add more than the recommended amount of water.
- After applying the product, protect the surface from rain for the first 24 hours.
- The maximum thickness must not be higher than 2 mm.
- Do not apply on lightweight substrates.
- Do not apply on cementitious substrate not sufficiently cured.

TECHNICAL INFORMATION FOR THE APPLICATION

Composition of the mix: 100 kg of AQUA BARRIERA FUTURA 23-25 kg of water

Minimum applicable thickness per coat: 1 mm

Maximum applicable thickness per coat: 2 mm

Recommended application temperature range: surrounding and substrate temperature from +5°C to +35°C

Pot life of mix: approx. 1 hour (at +20°C)

Preparation of the substrate

Pay particular attention to the laying surfaces and their preparation

▪ EXISTING FLOORS:

Existing floors in ceramic, porcelain, klinker, terracotta, etc. must be bonded well to the substrate and must be completely free of substances that could compromise the bond, such as grease, wax, oil, and paint. Remove all traces of material and substances that could affect the adhesion of FUTURA.

▪ CEMENTITIOUS SCREEDS:

Cracks caused by settling and plastic or hygrometric shrinkage must be sealed beforehand. If extra layers of

up to 2 mm thick need to be created (e.g. to form sloping surfaces or to even out hollows), use MAGMA QUARTZ R4, AVAGROUT R3.

▪ **RENDERS:**

Cementitious render must be cured sufficiently (7 days per centimetre of render), well bonded to the substrate, strong, and free of dust and all kinds of paint. Dampen absorbent surfaces with water before applying FUTURA without saturating them.

Before spreading AQUA BARRIERA FUTURA on the surface, special care must be taken around expansion joints and fillet joints between horizontal and vertical surfaces. In fillet joints between horizontal and vertical surfaces, apply AQUA STAR 120 Plus with FUTURA.

Preparation: Pour 4,5-5,0 litres of water into a clean container and slowly add AQUA BARRIERA FUTURA while mixing. Mix thoroughly for a further 3 minutes until it is completely blended, making sure that no powder remains attached to the sides and bottom of the container. A low-speed mechanical mixer is recommended for this operation, to avoid too much air being entrapped in the mix. Avoid mixing the product manually.

Application: AQUA BARRIERA FUTURA must be applied in at least two layers with a brush, roller, or trowel within 60 minutes of mixing at a distance of at least 6 hours between each coat, and in all cases only once the first coat has dried, until a final thickness of 2 mm is obtained. In areas with micro-cracks or which are particularly stressed, we recommend inserting alkali-resistant glass fibre mesh AVANET 145 in the first layer of FUTURA while still fresh.

AQUA BARRIERA FUTURA must be smoothed over with a flat trowel immediately after applying the mesh. For application on small balconies, two layers of FUTURA may be applied without reinforcement, as long as the total dry thickness is at least 2 mm. After completing the application cycle, wait at least 24 hours before laying the ceramic tiles (at +23°C and 50% R.H.; this time may vary according to climate and surrounding conditions).

Laying ceramic tiles on AQUA BARRIERA FUTURA: Bond in place using C2 class cementitious adhesive of the AVAGEL or AVAGEL AERO range depending on the format of the tile or, for more rapid work, C2F class adhesive (AVAGEL AERO ULTRA). Grout the tile joints with a special class CG2 cementitious grout AVACOLOR or epoxy grout, class RG - AVAPOXY FUGA UV+.

CLEANING: While the product is still fresh, it may be removed from tools and hands using plenty of clean water. Once hardened, FUTURA may only be removed mechanically.

CONSUMPTION: Approx. 1.1 kg/m² per mm of thickness.

PACKAGING: 20 kg bags.

STORAGE: AQUA BARRIERA FUTURA may be stored for up to 12 months in its original packaging in a dry place.

PRODUCT IDENTITY

Identification according to EN 14891: CM O1 P

Appearance: powder

Colour: grey or white

PREPARATION OF THE PRODUCT FOR LABORATORY SAMPLES

Mixing ratio: 100 parts by weight of FUTURA with 24% of water

Preparation of the mix: mix with a paddle mixer for around 1'30" to form a smooth, even paste with the required density.

CHARACTERISTICS OF THE FRESH MIX (at +20 °C and 50% R.H.)

Colour of mix: grey

Consistency of mix: plastic-trowellable

Density of mix: 1350 kg/m³

Performance characteristic	Requirements EN 14891	Product performance
Impermeability to water in pressure: EN 14891- A.7	no penetration	no penetration
Crack-bridging ability at +23°C: EN 14891- A.8.2	≥ 0.75 mm	> 1,10 mm
Crack-bridging ability at low temp. -15°C: EN 14891- A.8.3	≥ 0.75 mm	> 0.80 mm
Initial bond strength: EN 14891- A.6.2	≥ 0.5 N/mm ²	≥ 1.53 N/mm ²
Bond strength after immersion in water : EN 14891- A.6.3	≥ 0.5 N/mm ²	≥ 1.20 N/mm ²
Bond strength after application of heat source : EN 14891- A.6.5	≥ 0.5 N/mm ²	≥ 1.60 N/mm ²
Bond strength after freeze-thaw cycles : EN 14891- A.6.6	≥ 0.5 N/mm ²	≥ 1.50 N/mm ²
Bond strength after immersion in basic water : EN 14891- A.6.9	≥ 0.5 N/mm ²	≥ 0.90 N/mm ²
Bond strength after immersion in chlorinated water : EN 14891- A.6.8	≥ 0.5 N/mm ²	≥ 1.00 N/mm ²

WARNING: Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product. Please refer to the current version of the Technical Data Sheet, available from our website

www.avalon-industry.com