

**AQUAPANEL®**

# Exterior Basecoat – white

*Cement-based reinforcing mortar  
enhanced with synthetic resin*



AQUAPANEL® Exterior Basecoat – white is a cement bound, synthetic resin-enhanced basecoat. It is used for basecoating of AQUAPANEL® Cement Board Outdoor when finishing with a thin layer of decorative render.

**Preparation of the substrate**

Ensure that the surfaces of the AQUAPANEL® Cement Board Outdoor are dry and dust-free. Ensure that no offsets, open joints or unevenness tolerances are present outside of the required specifications. Make sure the AQUAPANEL® Joint Filler - grey, into which AQUAPANEL® Tape (10 cm) is embedded, is adequately hardened and dry.

Shape circuit points on adjoining units with pre-compressed sealing tape. Fit plaster stop beads at windows and doors to form the joint to the plaster system. Make sure all external corners have a mesh corner angle fitted.

**Application**

Apply AQUAPANEL® Exterior Basecoat - white 5 mm thick, spread to achieve a flat surface, free from irregularities. Reinforcing strips approx. 30 x 50 cm are placed diagonally from the corners of all building openings. The mesh strips must start directly from the corners beneath the actual mesh layer. Next, embed AQUAPANEL® Reinforcing Mesh horizontally over the full surface, keeping it free of folds, close to the surface and with 10 cm overlaps. Laying time is approx. 15 min. Open time is approx 20 min at approx 20°C. For plaster layers with grain size < 1 mm or for easy-to-spread felted surfaces, use a 30 cm wide strip of AQUAPANEL® Exterior Reinforcing Tape over the board joints as additional reinforcement. The with AQUAPANEL® Tape (10 cm) can then be omitted. Place AQUAPANEL® Reinforcing Mesh over the whole surface area.

The total dry thickness of the reinforcing layer formed from the AQUAPANEL® Exterior Basecoat - white and AQUAPANEL® Reinforcing Mesh should be a minimum of 4 mm. The rework time for AQUAPANEL® Exterior Basecoat – white is approximately 24 hours at 20°C. However, this time may be extended depending on temperature and humidity.

Where reinforced mortar surfaces are later to be in contact with banked earth or grit, make sure they are sealed according to DIN 18195 after curing and drying to approx. 5 cm above the top edge of the ground contact area.

In particular, please note:

DIN V 18550 and part C of the German Construction Contract Procedures DIN 18350 apply for the mixing of the plaster. Dry plaster should be mixed only with clean water so that no contaminants are introduced.

AQUAPANEL® Exterior Basecoat - white may be processed for further applications. These applications, which are not described in this product information sheet, require technical approval from Knauf USG Systems.

**Mixing/processing**

For manual applications, mix contents of 25 kg sack with approx. 6.30 litres of water for approx. 2 minutes. The mixture ratio of powder to water should be in the proportions of 4:1. Allow to settle for approx. 3 minutes and then stir through again for approx. half a minute.

Processing time for the mixed plaster is 60 minutes at approx. 20°C. In accordance with DIN 18550, do not process in air or wall temperatures below +5°C. Protect fresh plaster from the effects of frost and rapid drying.

Process large surface areas using a plaster machine (PFT G4/G5 or equivalent). Add approx. 200 litres of water initially, then adjust to give a lean mortar consistency.

Feeder casing: D4-3 - green, half power

Screw feed: D4-3 - Super, half power

Roto mixer: Not required!

Mortar hoses: Ø 35 mm for 10 to 20 meters and Ø 25 mm for residual length

Wet carrying distance (horizontal hose lay): up to 40 m

Wet carrying distance (vertical hose lay): up to 30 m

For both manual and machine processing applications, mix dry mortar with clean water so as not to contaminate the mixture. Clean all tools and equipment with water immediately after use.

**Properties**

- Mortar group CS III to EN 998
- Lime cement-bound dry mortar
- For exterior and interior use
- Best grain size distribution for smooth surfaces
- With fibre admixture and adhesive additive
- Water-repellent
- Allows diffusion
- Very good adhesion
- Viscous stability
- For processing by hand or machine
- Natural white

**Coverage**

8 kg/m<sup>2</sup> wet material (6.3 kg of powder) results in a wet layer thickness of approx. 5 mm. This, in turn, corresponds to a dry layer thickness of 4 mm.

Base coat with wet layer thickness 5 mm application:  
approx. 6.3 kg/m<sup>2</sup> ≈ 4 m<sup>2</sup>/sack.

**Technical data**

AQUAPANEL® Exterior Basecoat - white is a normal plaster (CS III) for interiors and exteriors according to EN 998 - 1. The product is CE marked.

**Composition**

Binder	Calcium hydroxide to DIN EN 459 Cement to DIN EN 197
Aggregates	Powdered limestone and graded sands
Additives	Water containment, water-repellent and bond enhancing agents

Apparent density	1.3 g/cm <sup>3</sup> [kg/l]
Bending resistance (28d)	2 - 3 N/mm <sup>2</sup>
Comprehensive strength (28d)	4 - 5 N/mm <sup>2</sup>
E-Modulus (dyn., 28d) to TP DE-PCC	4000 - 5000 N/mm <sup>2</sup>
Water vapour diffusion coeff. $\mu$	15 - 35
Thermal conductivity to DIN 4108	0.87 W/(m·K)
Water absorption to EN 998 - 1	W2
Colour	Natural white

AQUAPANEL® Exterior Basecoat – white is subject to designation under the applicable EU guidelines. You can obtain an EC safety data sheet on request. Please observe the information on exposure to the product, as well as storage and waste disposal.

GIS-Code: ZP01

**Working time**

Manual: 8 to 10 minutes per m<sup>2</sup>

Machine: 5 minutes per m<sup>2</sup>

**Working temperature/climate**

Do not use when air and/or wall temperatures are below +5°C. Protect fresh plaster from the effects of frost and rapid drying. Protect fresh surfaces from the effects of weathering.

**Method of delivery/storage**

- 25 kg / bag
- Protect against moisture, storage life 9 months in a dry area. For best quality store in original packaging up until use-by-date - see date printed on packaging.

Item code: 102812