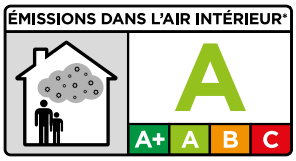
ACQUASHIELD+

Flexible, two-component mortar for waterproofing application.
Grey and white versions available

• Waterproof and flexible levelling-off for cement based sub bases even with uneven surfaces • Waterproof, flexible, skimming on cement-based plasters, even if cracked • Waterproof coating of walls in contact with the ground, foundations and lift-shafts • Waterproofing of baths, showers, balconies, terraces, and swimming pools before the ceramic tiles laying • Waterproofing of water tanks • Waterproof flexible coat on plaster-board • Protection and total waterproofing of screeds in terraces and balconies • Waterproofing on pre-existing tile floors
• White version: used on the back of marble tiles as protection against superficial stains
• CE



TECHNICAL FEATURES: ACQUASHIELD+ is a highly resistant cement-based bi-component mortar with fine quartz, new generation additives (component A) and high tech synthetic polymers in water dispersion (component B). It can be easily applied with a roller, brush and trowel, for horizontal and vertical application. It has been formulated and developed to protect cement-based plasters and concrete structures - including those in contact with the ground, such as exterior cement - based screed on terraces, balconies and swimming pools - against premature ageing caused by the action of water, salts and frost. The film formation adopted by the polymers in component B, which develops in the product drying phase both on the surface and at depth in the internal micro-cavities, creates a barrier against the passage of water and the salts that may be contained in it, and against airborne contaminants, thus providing lasting protection against substances such as chlorides, sulphates, carbon dioxide and sulphur dioxide, which cause the decay of concrete and metal reinforcement. The product is especially recommended for water-proofing tanks intended for containing water, and can also be used on old substrates such as existing ceramic flooring, provided it is clean, strong, properly anchored and free from standing water.

TECHNICAL ASSISTANCE

INSURANCE GUARANTEE

TECHNICAL MEETINGS

PROFESSIONAL USE

CONTRACT ITEM SPECIFICATIONS:
Supplying and setting of bicomponent, flexible waterproofing coverings, polymers and cement-based, conforms to EN 14891; Crack bridging value > 1,00 mm, resistant to positive pressure, resistant to weathering an to frost-thaw cycles, as ACQUASHIELD+ by Benfer at least two coats of ACQUASHIELD+ are necessary for a total thickness of 1,5 mm.

AREAS OF APPLICATION:

- Waterproof and flexible levelling-off for cement based sub-bases even with uneven surfaces
- Waterproof, flexible, skimming on cement-based plasters, even if cracked
- Waterproof coating of walls in contact with the ground, foundations and lift-shafts
- Waterproofing of baths, showers, balconies, terraces, and swimming pools before the ceramic tiles laying
- Waterproof coating of tanks for containing water
- Waterproof flexible coat on plaster-board

METHODS OF USE:

SUBSTRATES PREPARATION:

Substrates must generally be properly anchored, stable, free from shrinkage, totally clean and free from standing water. Absorbent substrates must be moistened especially in high ambient temperatures, and in any event the produced cannot be used in temperatures higher than 35°C. On absorbent surfaces, it is recommended to apply BENFERPRIM. Care must be taken during the first 48 hours after application to protect the works from flooding and frost that would damage the waterproof membrane. During summer, neither the powder component nor the liquid component should be exposed to direct sunlight few hours before mixing. In addition, the product must be suitably protected following application to prevent it drying too quickly.
To ensure successful waterproofing of terraces and balconies, contractors must make certain that good professional practices are adopted during all preceding steps of the building process, and not only during application of the waterproofing compound.

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- To verify that a suitable gradient has been included (at least 0.5 / 1 cm drop per linear metre);
- To line the skirtings of adjoining walls vertically to a height of at least 30 cm, ensuring a perfectly watertight join with the floor membrane, using the special rubberized strips located between first and second coats of ACQUASHIELD+;
- To make certain that drip beads and gutters gathering water below the level of the membrane are properly located and formed, so that there is no way the water can be absorbed back into the slab beneath the membrane;
- To be sure to seal the balusters of any railings. If these are inconveniently shaped and not isolated with suitable sealants, then can provide a route along which water will infiltrate under the waterproof membrane.

Be careful with any railings. If these are inconveniently shaped and not isolated with suitable sealants, they can provide a route along which water will infiltrate under the waterproof membrane.

PRODUCT PREPARATION:

ACQUASHIELD+ consists of two pre-dosed components, i.e. Comp. A, in powder form, weighing 20 kg and Comp. B, in liquid form, weighing 5 kg. The two components must be thoroughly mixed with a mixer at low speed, by pouring the powder slowly into the latex, until the mix is uniform. The product is now ready for use and must be used within one hour.
On no account add water, cement or other components, as these would compromise the performance of ACQUASHIELD+.

PRODUCT APPLICATION:

The product must be applied with a roller, brush or smooth spatula minimum two coats to obtaining a thickness of 2 mm. The layers following the first layer must be applied in a crisscross manner as soon as ACQUASHIELD+ is sufficiently hardened (approximately 1-2 hours at 23°C).
In hot, ventilated environments, it is important to suitably protect the applied product against excessively quick drying.
It is also important to protect the applied product against frost in the first 48 hours.
Before the setting of wall tiles and ceramic floors on ACQUASHIELD+, wait at least 48 hours, and use flexible adhesives such as BENFERFLEX range, or BENFERFLEX RAPIDO, C2+, BENFERFLEX C2, BENFERFIX EXTRA with CEMLATEX 600, BENFERGRIP+ with CEMLATEX 600 and BENFERFIX RAPIDO with CEMLATEX 600.
Grouting preferably with DEKOGROUT+, DEKOGROUT, DEKOGROUT-2K or EPOXYJOINT.

CLEANING: Tools must be cleaned with a damp cloth or sponge while the product is still wet.
CONSUMPTION: On a smooth substrate, and with a total application thickness of ACQUASHIELD+ of 2 mm, coverage is 3 kg/m^2.
PACKAGING: ACQUASHIELD+ is packed in 20 kg poly-lined bags (Component A), and 5 kg plastic drums (Component B). It is supplied in pallets of 840 kg and 420 kg.
STORAGE: In the original closed package in a cool dry place.
SHELF LIFE: 12 months from the date of manufacturing.

PRODUCT TECHNICAL DATA	
Basis:	Premixed powder (Comp.A) liquid polymer (Comp.B)
Color:	Grey and white (Comp.A) - White (Comp.B)
Conservation:	12 months in the original closed package in a cool dry place
Danger of harm:	Possible irritation of the eyes and skin upon contact
Flammability:	No
Mixture ratio:	4:1
Mixing time:	2-3 min. (drilling machine min. 300 - 500 r/min)
Consistency:	Thixotropic mortar
Apparent mass volume:	1600 kg/m^3,
Application temperature:	From + 5° C to + 35° C
Maximum/minimum thickness:	From 1 mm to 2 mm per coat (at least 2 coats)
Waiting time before applying second coat:	Between 2-6 hours, according to climate conditions
Exposure to rain after approx.:	6 hours
Exposure to pressure water after approx.:	7 days
Exposure to setting of tiles after approx.:	1 day
Water permeability:	No penetration
Adhesion strength:	≥ 0.5 N/ mm^2
Tensile strength after water immersion:	≥ 0.5 N/mm^2
Tensile strength after thermal ageing:	≥ 0.5 N/mm^2
Tensile strength after frost-no frost cycles :	≥ 0.5 N/mm^2
Tensile strength after contact with limewater :	≥ 0.5 N/mm^2
Tensile strength after contact with chloridewater :	≥ 0.5 N/mm^2
Crack bridging:	≥ 1,00 mm
Expanding to crack according to EN 53504:	≥ 110%
Resistance to temperature:	From -30°C to + 90°C
	* at 23°C and 50% relative humidity

PLEASE NOTE: The information given in this chart is based on our best experience and indicative only. It must in any event be verified by the end user, who assumes all liabilities deriving from utilization of the product.