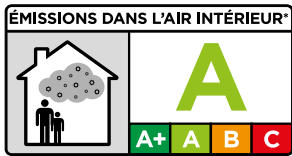




ACQUASHIELD

Two components, flexible waterproof coating for balconies, terraces, swimming pools, concrete artifacts

- Total and long-lasting protection and waterproofing of screed on balconies and terraces
- Waterproofing of swimming pools, baths, showers before the installation of ceramic tiles
- Waterproof coating on walls in contact with the ground, foundations and lift-shafts
- Waterproof coating of water tanks
- Waterproofing on old ceramic floors
- Conforms to EN14891
- **CE**



TECHNICAL FEATURES: ACQUASHIELD is a two-component mortar consisting of cements, fine aggregates with graded particle size, special additives (component A) and synthetic polymers in aqueous dispersion (component B), which is easy to apply on both horizontal and vertical surfaces, and offers outstanding adhesion. 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 microcavities, 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 waterproofing tanks intended for containing water, and can also be used on old substrates such as existing ceramic flooring, provided it is clean, sufficiently flat, strong, properly anchored and free from standing water.



TECHNICAL ASSISTANCE



INSURANCE GUARANTEE



TECHNICAL MEETINGS



PROFESSIONAL USE

CONTRACT ITEM SPECIFICATIONS:

Supply and setting of waterproofing, bi-component flexible mortar, cement and polymers based, conforming to EN ISO 14891, crack bridging >1,80 mm, resistant to positive pressure, resistant to atmospheric agents and frost-thaw cycles, such as ACQUASHIELD by Benfer.

Two coats of ACQUASHIELD are always necessary for a total thickness of at least 1,5 mm. The project supervisor may consider the use of a safety felt ACQUASHIELD-RSHEET, to be included in the inner part of the first coat, according to the stress the waterproofing coat will be subjected to.

AREAS OF APPLICATION:

- 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 installation of ceramic tiles
- Water tanks, waterproof coating
- Thin smooth, waterproof, flexible coating on plaster board

METHOD 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 product cannot be used in temperatures higher than 35°C. During the hottest part of the day, the product may dry out quickly if used directly in the sun or in strong wind, making it difficult to obtain a smooth surface. With this in mind, extra care should be taken in planning work during hot weather. 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. When used the summer months, neither the powder component nor the liquid component should be exposed to sunlight during the few hours before mixing. In addition, the product must be suitably protected following application to prevent it drying too quickly. If parts of the substrate are crumbling, missing or have voids, the substrate must first be restored with suitable mortars for filling or restoration. Never apply the product to wood, metal, or bitumen coatings. On gypsum first apply BENFERPRIM. 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.

Certain important aspects, for example, are:

- 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 joint with the floor membrane, using the special rubberized strips located between first and second coats of ACQUASHIELD
- To include expansion, control and perimeter joints and make certain they are sealed correctly, likewise using the special rubberized strips
- 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

MIXTURE PREPARATION: ACQUASHIELD consists of two predosed components, i.e. part A, in powder form, weighing 25 kg and part B, in liquid form, weighing 8 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 smooth spreader in two subsequent coats with a maximum thickness of approximately two millimetres each. The second coat must be applied across the first, when the first has hardened sufficiently (about two hours).

In areas subject to particularly high stresses, it is advisable to insert a plastic or glass fibre plaster support net with a mesh of 4-5 mm between the first and second coats, or the safety fleece ACQUASHIELD-RSHEET. The second coat of ACQUASHIELD can be smoothed with a smooth spreader a few minutes after application. In hot, ventilated environments, it is important to moisten absorbent substrates and 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.

When fixing ceramic floor or wall tiling on ACQUASHIELD, it is necessary to wait 48 hours and to use flexible adhesives such as BENFERFLEX family, as BENFERFLEX C2, BENFERFIX EXTRA with CEMLATEX 600, BENFERGRIP+ with CEMLATEX 600 and BENFERFIX RAPIDO with CEMLATEX 600. The joints must be made 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 2.5-3 mm, coverage is 3-4 kg/m².

PACKAGING: ACQUASHIELD is packed in 25 kg polylined bags (Component A), and 8 kg plastic drums (Component B). It is supplied in 1200 kg and 384 kg pallets respectively.

STORAGE: In the original unopened packaging in a dry and cool place.

SHELF LIFE: POWDER/LIQUID 12 months from the date printed on the packaging.

PRODUCT TECHNICAL DATA	
Basis:	premixed powder (COMP.A) liquid polymer (COMP.B)
Color:	grey (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:	25:8
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*
Pressure water after approx. :	7 days*
Setting of tiles after approx.:	1 day*
Water permeability:	no penetration
Crack bridging:	≥ 1,80 mm
Stretching to breaking point according to EN53504:	≥ 130%
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.