



READY-TO-USE FLEXIBLE LIQUID MEMBRANE WITH HIGH REFLECTANCE FOR CONTINUOUS WATERPROOFING LAYERS ON EXPOSED SURFACES.



PRODUCT DESCRIPTION

Aquashield Energy is a totally solvent-free, ready-to-use, ultra-quick drying, one-component white, synthetic resin based paste in water dispersion. Aquashield Energy is easy to apply using a long-haired roller, brush or trowel on horizontal, sloping and vertical surfaces. Aquashield Energy dries very quickly to form a flexible membrane without a sticky surface. It is resistant to light pedestrian traffic after just 3 hours and forms an excellent grip with all types of adhesive for laying ceramic, stone material and mosaic of all kinds. The flexible nature of Aquashield Energy helps it withstand normal movements caused by expansion and shrinkage of the substrate due to temperature variations and vibration.

FIELD OF APPLICATION

For waterproofing and protecting:

- flat roofs;
- paving slabs;
- cupolas and curved roofs.

SUITABLE SUBSTRATES

- ceramic and stone;
- cementitious screeds and screeds made from special binders;
- concrete;
- old bituminous membranes;
- wooden trimmings;
- galvanized sheet, copper, aluminium, steel and iron.

LIMITATIONS

- Do not apply if the temperature is lower than +5°C.
- Do not apply on cementitious substrates or on substrates with residual humidity higher than 3% and recurring rising damp.
- Do not apply on crumbly cementitious substrates, old floors which are not well bonded to the substrate or surface treatments which impede a good bond.
- Do not use to cover cracks.
- Protect the surface from rain for at least 24 hour after applying .

APPLICATION PROCEDURE

A) Preparing the substrate

The substrate to be treated must be mechanically robust and clean. Remove all cement laitance, traces of powder, flaky parts, grease, oil, and form release agents by sandblasting or washing down with a high-pressure water pump. If the substrate to be waterproofed and protected with Aquashield Energy is in poor condition, remove the damaged parts manually or mechanical abrasion by using a hydro-demolition system or a hydro-scarified. The last technique, which uses high-pressure water, is recommended because the reinforcement rods are not damaged. The structures that are not subject to vibration could cause small cracks in adjacent concrete. Once the rust has been entirely removed by sandblasting, repair with a pre-blended repairing mortar. Absorbent surfaces to be treated with Aquashield Energy must be primed with Seal Primer. Existing floors, which are covered in tiles, must be well bonded to the substrate, and the surface of tiles must be free of substances that could compromise the adhesion of Aquashield Energy, such as oil, grease, paint, wax, etc. In order to remove material that could affect the adhesion of Aquashield Energy, clean the floor with detergents and water. After this, the surface must be treated with DCI Grip Primer.

B) Preparing the product

Ready to be used.

C) Applying the product

Aquashield Energy must be applied in two layers with a brush or a long-haired roller. Before applying the second layer, wait until the first coat is dry, making sure the product becomes darker with a matt finish. The second layer is applied diagonally to the first one. The final thickness of the

two layers of Aquashield Energy must be at least 0.8 mm to create a solid, flexible, and continuous film. Ensure there are no interruptions in the film caused by imperfections in the substrate.

COVERAGE / CONSUMPTION

The approximate consumption is 1 – 1.5 kg/m²

PACKAGING

Aquashield Energy is supplied in:

- 5 kg plastic buckets
- 20 kg plastic buckets

SHELF LIFE-STORAGE

Original sealed packaging of this product is guaranteed to be of first quality for 24 months if stored in a dry area. The high humidity will reduce the shelf life of the bagged product.

SAFETY INSTRUCTION

Aquashield Energy is not considered dangerous according to the current regulations regarding the classification of mixtures. However, it is recommended to take the usual precautions for handling chemicals and wear protective goggles and gloves. For further and complete information about the safe use of our product, refer to the latest version of our Material Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA

Product identity

Consistency	Paste
Color	White
Density (g/cm ³)	1.30
pH	9.5
Dry solids content (%)	75
Brookfield Viscosity (mPa·s)	65,000 (spindle 6 - 10 rpm)
Application data (at +23°C and 50% R.H.)	
Minimum filming forming temperature	+5°C
Recommended application temperature	+5°C to +35°C
Waiting time between the coats on walls	approximately 60 minutes
Waiting time between the coats on the floor	3-4 hours
Complete drying	12 hours
Final performances	
Initial adhesion strength EN 14891-A.6.2 (N/mm ²)	1.72
Adhesion strength after immersion in water (EN 14891-A.6.3) (N/mm ²)	1.09
Bond strength after application of heat source (EN 14891-A.6.5) (N/mm ²)	1.89
Bond strength after freeze-thaw cycles (EN 14891-A.6.6) (N/mm ²)	1.21
Bond strength after immersion in basic water (EN 14891-A.6.9) (N/mm ²)	1.37
Bond strength after immersion in sodium hypochlorite solution (EN 14891-A.6.7) (N/mm ²)	1.25
Crack-bridging ability at +23°C (EN 14891-A.8.2) (mm)	3.91
Crack-bridging ability at -5°C (EN 14891-A.8.3) (mm):	1.71



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