



TWO-COMPONENT EPOXY-POLYURETHANE RESINS BASED PRODUCT WHICH FORM A FLEXIBLE WATER-PROOF AND CHEMICAL RESISTANT LAYERS.



PRODUCT DESCRIPTION

Aquashield PU 100 is a solvent-free paste consisting of selected epoxy polyurethane resins, special fine-graded aggregates and admixtures. Aquashield PU 100 thixotropic consistency makes it easy to use for waterproofing even vertical and sloping surfaces. When completely dry Aquashield PU 100 forms a waterproof plastic coating that is resistant to prolonged immersion in water, even when slightly acid or alkaline, and resistant to aggressive agents present in the soil.

FIELD OF APPLICATION

For waterproofing and protecting:

- Waterproofing foundations.
- Waterproofing bearing walls.
- Application on floors and walls in the food industry, communal kitchens, breweries, abattoirs, dairies, technical rooms, etc.

SUITABLE SUBSTRATES

- Cold waterproofing masonry or concrete poured over bare ground.
- Waterproofing flat or curved surfaces on structures below ground level, such as man-made tunnels and underpasses.
- Waterproofing horizontal concrete structures below screeds isolated with PE sheets.

LIMITATIONS

- Do not mix with solvents;
- Do not use if the temperature is lower than +5°C or higher than +30°C;
- Do not use in damp or rainy weather;
- Do not use to waterproof surfaces exposed to UV rays;
- Do not use with water in counter-pressure;
- Do not use if there is no protective drainage layer;
- Do not use if the drainage layer subjects the waterproofing layer to linear or spots load

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 PU 100 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 PU 100 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 PU 100, such as oil, grease, paint, wax, etc. In order to remove material that could affect the adhesion of Aquashield PU 100, clean the floor with detergents and water. After this, the surface must be treated with Epoxy based Primer.

B) Preparing the product

The two components which form Aquashield PU 100 are supplied pre-dosed. Mix the thixotropic emulsion component A at a low speed (400 rev/min) until it becomes liquid. Add the powder component B while mixing and continue mixing until a smooth, lump-free blend is obtained. Once blended, the product has a pot life of approximately 2 hours at +23°C.

C) Applying the product

Aquashield PU 100 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 PU 100 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 PU 100 is supplied in:

- 5 kg plastic buckets A+B
- 20 kg plastic buckets A+B

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 PU 100 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

	Component A	Component A
Consistency	Thick paste	Liquid
Color	Grey	Transparent
Density (g/cm ³)	1.45	0.95
Dry solids content (%)	97	100
Brookfield viscosity at +23°C - 50% R.H. (mPa·s)	18,000	

Application data (at +23°C and 50% R.H.)

Mixing ratio	18 : 2
Density of mix (kg/m ³)	1,400
Pot life	1 hours
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	48 hours

Final performances

Temperature when in use	30°C to +80°C
Crack-bridging (according to ZDB) (mm)	1.5
Tensile breakage load (N/mm ²) (according to DIN 53504- S3a)	4.5



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