AQUA SIL

Go to TDS

HYDROISOLATION

WATERPROOFING, SOUND REDUCING AND ANTI-FRACTURE MEMBRANE.

PRODUCT DESCRIPTION

Aquaseal is a one-part, trowel applied, elastomeric waterproofing, crack and sound isolation membrane and setting adhesive. Use Aquaseal as a waterproofing, crack, and sound isolation membrane over properly prepared concrete; structurally-sound, exterior grade plywood, cementitious backer board, and existing well-bonded vinyl or ceramic tile prior to the installation of ceramic or stone tile. Aquaseal may be used with gypsum based underlayments in dry, above grade installations with minimum compressive strengths of 25 MPa.

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 .

Via Sorte, 2, 24030
Barzana BG, Italy

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 Aquaseal 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 Aquaseal 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 Aquaseal, such as oil, grease, paint, wax, etc. In order to remove material that could affect the adhesion of Aquaseal, 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
Aquaseal 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 Aquaseal 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

TThe approximate consumption is 1 – 1.5 kg/m²

PACKAGING

Aquaseal 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

Aquaseal 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.

Via Sorte, 2, 24030
Barzana BG, Italy

TECHNICAL DATA

Product identity

Consistency	Paste
Color	White
Density (g/cm²)	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/mm²)	1.72
Adhesion strength after immersion in water (EN 14891-A.6.3) (N/mm²)	1.09
Bond strength after application of heat source (EN 14891-A.6.5) (N/mm²)	1.89
Bond strength after freeze-thaw cycles (EN 14891-A.6.6) (N/mm²)	1.21
Bond strength after immersion in basic water (EN 14891-A.6.9) (N/mm²)	1.37
Bond strength after immersion in sodium hypochlorite solution (EN 14891-A.6.7) (N/mm²)	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

EMISSION CLASS FOR BUILDING MATERIAL
M1

+1 55 12 258 428
info@dc-industries.us
www.dc-industries.us

DC INDUSTRIES

Via Sorte, 2, 24030
Barzana BG, Italy