

# AQUASEAL 140

## Single Component, Flexible Cementitious Waterproofing Slurry

### Description

**AQUASEAL 140** is an elastic cementitious single-component mortar for waterproofing concrete surfaces, plasters, screeds and cement-based substrates, ceramic and marble. It has high adhesion to substrates, good flexibility and excellent workability. The product is flexible even at low temperatures, ensuring the waterproofing of treated surfaces and is compatible with cement-based adhesives and coatings for subsequent layers.

**AQUASEAL 140** is consisting of Portland cement, selected aggregates and special polymer additives to improve application, substrate adhesion, flexibility, water resistance and elasticity.

### Features & Benefits

- Pre-mixed, ready to use.
- Flexible.
- Shrinkage compensated, cracks-free.
- Excellent substrate bonding.
- Sulphate resistant.
- Good bonding with subsequent layers.
- Can be used in contact with water for human consumption.
- Formulated for hot weather climate

### Uses

**AQUASEAL 140** is suitable for the waterproof protection of baths, showers, terraces, balconies, tubs, swimming pools, canals, before laying ceramic tiles, natural stone or glass mosaics.

It is also ideal for waterproofing the inside face of vertical and horizontal surfaces such as: sewerage processing tanks, concrete block walls and any masonry surface where crystal growth waterproofing will not be effective due to a lack of alkalinity in the substrate.

### Technical Properties

Appearance	Cementitious fine powder
Color	Grey / White
Mix Density	1,650 Kg/m <sup>3</sup> approx.
Mix Pot Life	40 min
Crack bridging	>0.75mm
Adhesion to concrete	2.0 N/mm <sup>2</sup> @ 28 days
Shore D hardness	30
Vapor Permeability	5 Perms
VOC	<1.0 g/L
Resistance to hydrostatic pressure	Passed (1.5 bar)
Initial setting time	2 hours @ 25 °C
Curing time before tiling	24 hours
Drying time before waterproofing testing	7 days
Service temperature	-10 to 80 °C

All values are subject to 5-10% tolerance

### Standards Compliance:

- BS 6920 Pt 1 (potable water compliance)
- BS 1881 Pt 5
- DIN 1048

### Application Procedures

#### Surface preparation:

The support must be clean, solid and free from non-adherent parts, loose cement, traces of form stripping oils, old varnishes.

Create a 45 ° fillet at junction between wall and floor with SUPERREP T40 or T60. Saturate the foundation with water to eliminate possible water absorption at the moment of application.

Priming is not normally required on good quality concrete substrates; however all surfaces must be splashed with clean water before applying AQUASEAL 140.

All expansion and movement joints should be sealed with a suitable joint sealant before the application of

AQUASEAL 140. Consult the Technical Department in SBI office for advice.

All shrinkage and non-moving structural cracks having a width equal to or less than 0.3 mm will be waterproofed by applying AQUASEAL 140 directly bridging over the crack. Static cracks wider than 0.3 mm must be routed out to form a 'V' shaped groove with a hand or pneumatic chisel. The cracks then must be repaired by priming the chiseled out crack with ULTRABOND AR (diluted 1:1 with water), followed by the application of SUPERREP T40 or T60 to fill the rebate flush with the concrete surface.

In general AQUASEAL 140 does not require priming, however high porous substrate can be primed with ULTRABOND AR (diluted 1:1 with water).

## Mixing Instructions:

Mix one bag of AQUASEAL 140 (20kg) with approx. 6.0 to 6.5 liters water. Mix until a uniform, lump-free and slurry grade mortar is obtained. The mixture should not contain any residue of dry powder. For best results an electric drill with attached stirrer or compulsory mixer should be used. Let the mixture rest for about 5 minutes, and remix again shortly before application.

## Application Instructions:

Apply the first layer using brush, roller or spray machine in a thickness of 1-2 mm. After 16-24 hours apply the second layer in a thickness of 1mm. Do not apply first layer more than can be overcoated with a second layer during the 48 hours. It is strongly recommended to apply a fiber mesh between the two coats in the area that needs more support such as corners and expansion joints ...etc., imbed the mesh in the first layer when it is still wet by using smooth trowel.

## Coverage

1.6-1.7 kg per m<sup>2</sup> per 1mm thickness.

## Packaging

**AQUASEAL 140** is available in 20kg bag.

## Storage

Keep the product in dry and sheltered place at temperature between +5°C to +35°C. In these conditions and in closed original containers, the product will have a shelf life of at least 12 months.

## Health and Safety

Wear gloves, goggles to avoid any contact with eyes and skin. In case of splashes in the eyes wash abundantly with warm water and consult a doctor.

For further information or particular use, contact SBI Technical Department.

## Quality & Care

All products produced in SBI facilities are manufactured under a management system certified to conform to the requirements of the quality and environmental health & safety standards ISO 9001 & ISO 14001.

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