

AQUASEAL 230

Two-Component Flexible Waterproofing Mortar

Description

AQUASEAL 230 is a two-component cementitious product that composed of Portland cement, bonding agent, graded fillers and special additives (Part A) and water based synthetic acrylic co-polymer (Part B). When mixed produce easily workable slurry that can be applied on horizontal and vertical surfaces. Once dried, it forms flexible, waterproofing membrane that is resistant against thermal changes, ultraviolet rays, chlorides and sulphates attack.

AQUASEAL 230 adheres perfectly to a variety of supports as bituminous sheaths, concrete, concrete, gypsum and cement boards, wood, metallic surfaces, etc. It can be used also as a waterproofing and flexible protective layer below ceramic coverings in showers and bathrooms.

Features & Benefits

- Easy to apply with high workability
- Eco-friendly
- High waterproofing and bonding properties
- For internal and external use
- Resistant to positive pressure up to 3 bars
- Excellent resistance to range of chemicals
- High protection to Chloride and Sulphate attack
- Provide crack bridging up to 1.5mm
- Vapor water permeability
- Formulated for hot weather climate

Uses

AQUASEAL 230 can be used as a waterproofing coating on top of concrete, metal, plasters, Gypsum boards, wooden chipboards etc.

As protective coating for polyurethane sprayed foam against water and UV effect.

Used as a waterproofing system for roofs, terraces, balconies, etc for both floor and wall application.

As waterproofing and protective coating for wet areas not exposed to pressurized water, such as showers, kitchens, bathrooms, residential and commercial buildings.

Waterproofing for water tanks, reservoirs and marine structure. It is compatible with potable water according to BS 6920 Part 1 & 3.

Can be applied in maintenance to restore bituminous waterproofing membrane.

Technical Properties

Appearance	Cementitious mix with polymer latex
Color	Grey / White other colors available on request
Mix Density	1,750 Kg/m ³ approx.
Mix Pot Life	40 min
Tensile strength	3.5 N/mm ² @ 28 days
Adhesion to concrete	≥1.5 N/mm ² @ 28 days
Shore A hardness	45
Service temperature	-10 to +80 °C
VOC	<1.0 g/L
Elongation at break	40% (without fiber mesh)
Moisture vapor transmission	>300 g/m ² /day
Crack bridging	Up to 1.5mm
Curing time between two coats	7-8 hours
Curing time before tiling	48 hours
Drying time before waterproofing testing	3 days
Elastic module (compression)	500 N/mm ²

All values are subject to 5-10% tolerance

Standards Compliance:

- BS 6920 Pt 1& 3 (potable water compliance)
- ASTM D4541-02, D412, E96
- EN 12390/8
- DIN 1048

Application Procedures

Surface preparation:

The support must be sufficiently cured, perfectly clean, solid and free from non-adherent parts, loose cement, traces of form stripping oils, old varnishes, etc. In case of concentrated water seepage, apply QUECK SEAL. Seal the fissures and small imperfections or support and create at junction between wall and floor a 45° fillet with SUPERREP T40 or T60. Saturate the foundation with water to eliminate possible water absorption at the moment of application. Dynamic superficial cracks can be clean and treated with AQUASEAL 230 as filler to the crack.

Mixing Instructions:

Pour the liquid part in to suitable mixing container then add gradually the powder part with mixing. 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.

Application Instructions:

AQUASEAL 230 can be applied with a roller, brush or with a spraying machine. For specified method application, contact SBI Technical Department.

For positive pressure waterproofing in application such as waterproofing in swimming pools, reservoirs, foundations, basements from outside, etc. The waterproofing is carried out with at least 2 full-surface applications (3 applications in the case of water under high pressure).

The first coat of **AQUASEAL 230** must always be applied by brush. It must be applied intensively to provide saturation coverage and a closed surface (consumption approx. 1.7 kg. / m² for 1 mm thickness). In order to improve the mechanical strength or when surface is exposed to movement where cracks are expected, it is recommended to apply reinforcing glass fiber mesh imbedded in the first coat when it is still wet. The second coat can be applied minimum after 8 hours. The consumption should not exceed 1.8 kg. / m² per coat to guarantee crack free drying of the waterproofing layer. Do not apply AQUASEAL 230 to frozen substrates, in frost or at high temperatures (substrates temperature should be less than +40°C).

Coverage

AQUASEAL 230 kit can covers 7 m² at total thickness of 2mm (in two coats)

Packaging

AQUASEAL 230 is available in 25kg kit (20kg powder & 5 Ltr Latex Polymer).

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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