

# AQUALASTIC 450

## High Elastomeric, Acrylic Waterproofing Membrane

### Description

**AQUALASTIC 450** is a high elastomeric acrylic coating. It is composed of water based synthetic polymer binder, specially selected chemical additives and fillers. It is a thixotropic paste, easily applicable on horizontal and vertical surfaces. Once dried, it forms an elastic, continuous, waterproofing membrane that is resistant against thermal changes, ultraviolet rays, and diluted acid solutions.

**AQUALASTIC 450** adheres perfectly to a variety of supports as bituminous sheaths, concrete, asbestos, cement, gypsum and cement boards, wood, metallic surfaces, etc. It can be used as a waterproofing and flexible protective layer on roofs and below ceramic coverings in balconies, showers and bathrooms.

### Features & Benefits

- Ready to use, easy to apply
- Excellent elasticity and crack bridging property.
- Excellent substrate bonding.
- Effective on damaged surfaces.
- High tensile strength
- High resistance to UV
- Has reflectivity to sun lights to reduce surface heat.
- Excellent diffusion resistant to chloride ions and carbon dioxide.
- Formulated for hot weather climate

### Uses

**AQUALASTIC 450** can be used as a waterproofing coating on top of concrete, metal, asbestos, plasters, Gypsum boards, wooden chipboards etc.

As protective coating for polyurethane sprayed foam against UV effect.

Used as a waterproofing system for roofs, terraces, balconies, etc.

As waterproofing and protective coating for wet areas not exposed to pressurized water, such as showers, kitchens, bathrooms, residential buildings and hospitals. Also can be used as waterproofing and protection layer on the back of natural stone and marbles, etc.

Can be applied in maintenance to restore bituminous waterproofing membrane.

Applied on top of bituminous membrane as a decorative layer and to protect the membrane from atmospheric effects and against oxidation due to solar effect.

### Technical Properties

Appearance	Acrylic Paste
Color	Grey / White other colors available on request
Mix Density	1,250 Kg/m <sup>3</sup> approx.
Solid content	>60%
Tensile strength	1.2 N/mm <sup>2</sup>
Adhesion to concrete	1.0 N/mm <sup>2</sup>
Shore A hardness	45
Service temperature	-10 to +80 °C
Elongation at break	450% (without fiber mesh)
Crack bridging	2.5mm
Water pressure resistance	1.5 bar
Curing time between two coats	6-8 hours
Full Curing time	7 days
Water absorption	Nil
UV resistance	No effect after 5000 hrs

All values are subject to 5-10% tolerance

### Standards Compliance:

- ASTM D 822 & D 412
- ASTM D 624 & D 882
- ASTM C 1305
- ASTM E 514-7A class E

### 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 very porous supports it is advisable to apply one coat of AQUALASTIC 450 diluted with 20% of water as a

primer coat on the concrete surface to seal the pores and stabilize the surface. The primer also functions as an adhesion promoter for the top coats.

Metallic surfaces must be steel brushed, or sand blasted in order to remove all corrosion and mill scale. For applications an old bituminous sheet, brush the surface and clean with water. In case of presence of protective aluminous varnish use SOLVENT 20 to remove the varnish and then clean with water.

## Mixing Instructions:

**AQUALASTIC 450** is supplied in a 20 kg Pails ready to use at site. Prior application mix the content of the pail to remove any sediment. it can be applied with a roller, brush or with a spraying machine. For specified method application, contact SBI Technical Department

## Application Instructions:

Apply the product in two crossed coats in a rate of 0.5 Ltr/m<sup>2</sup> per coat in order to create 500microns wet film thickness per coat. Before the following coat is applied make sure that the previous coat is completely dry (from 6 – 8 hours) according to the environmental conditions.

To give additional mechanical strength either at joints or over the whole surface, embed a layer of fiber glass tape or sheet between the two coats.

As an aesthetic finishing touch, it is possible to spray quartz, slate, sand, etc. onto the last coat while wet.

Allow the coating to cure fully for 7 days to achieve its full properties.

Protect **AQUALASTIC 450** coating from rain or from pedestrian traffic till it completely cures. Damaged parts can be cleaned and over coated.

## Coverage

**AQUALASTIC 450** can covers 2 m<sup>2</sup> per Ltr. to achieve thickness of 500 microns wet film thickness (around 300 microns DFT)

## Packaging

**AQUALASTIC 450** is available in 20kg Pail.

## 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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