

AQUASMART® -PB

Water-based, Bitumen extended Polyurethane liquid membrane for waterproofing.

DESCRIPTION

AQUASMART®-PB is a bitumen extended, water based polyurethane coating with exceptional thixotropic properties ideal for the waterproofing of foundation walls and wet rooms. The material unlike most bitumen emulsion-based material, is quick drying and can be applied in thick coats. Furthermore, the material has the characteristics of a true elastomer and does not resemble the thermoplastic materials of the same genre.

As with all the products in the **AQUASMART®** range, **AQUASMART®-PB** is available in a fire-retardant version: **AQUASMART®-PB-FR**.

Apply with brush, roller or airless spraying in one or two coats with minimum total consumption of 2-3 kg/m² reinforced with geotextile fabric available from **ALCHIMICA®**.

CERTIFICATION

CE certified acc. EN 1504-02
No: 2085-CPR-082 (AQUASMART PB).
See table below.

RECOMMENDED FOR

Waterproofing and protection of:

- Foundation walls,
- Wet rooms

LIMITATIONS

Not recommended for:

- Unsound substrates,

FEATURES & BENEFITS

- Water based
- Easy to apply & repair.
- Thixotropic

- Seamless.
- Elastic.
- Quick curing

APPLICATION PREREQUISITES

Can be successfully applied on:

Concrete, fibrous cement, cement roof tiles, wood, corroded metal, galvanized steel. For information about other substrates, please contact our tech department.

Standard concrete substrate conditions

Hardness: $R_{28} = 15 \text{ MPa}$.

- Humidity: $W < 10\%$.
- Temperature: $5-35 \text{ }^{\circ}\text{C}$.
- Relative humidity: $< 85\%$.

Suitable primers:

AQUASMART®-DUR, **MICROSEALER-PU** depending on the substrate. Please contact our technical department for primer selection advice.

APPLICATION PROCEDURE

Clean the substrate using a high-pressure washer, if possible. Remove oil, grease and wax contaminants. Cement laitance, loose particles, mould release agents, cured membranes must also be removed. Surface irregularities should also be filled.

Priming:

Apply recommended primer according to Technical Data Sheet specifications.

Mixing:

Mix thoroughly before application. Although thinning is not necessary, the material can be further thinned by 5-10% water. In the case of airless spraying, dilution with water is highly recommended.

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Application:

Apply with roller, brush or airless spraying in two coats.



Do not apply under conditions of extreme wet weather or imminent rain or near freezing temperature.

CONSUMPTION

Minimum total consumption: **2-3 kg/m²**.

CLEANING

Clean tools and equipment with water.

SHELF LIFE

Can be kept for 12 months minimum in the original unopened pails in dry places and at temperatures of 5-25 °C. Once opened, use as soon as possible.

SAFETY INFORMATION

The MSDS (Material Safety Data Sheet) is available on request.

TECHNICAL SPECIFICATIONS

In liquid form (before application):

PROPERTY	UNITS	METHOD	SPECIFICATION
Viscosity (Brookfield)	cP	ASTM D2196-86, @ 25 °C	3,000-8,000
Specific weight	gr/cm ³	ASTM D1475 / DIN 53217 / ISO 2811, @ 20 °C	0.95-1.05
Required application temperature	°C	-	> 5

In cured form (after application):

PROPERTY	UNITS	METHOD	SPECIFICATION
Hardness	Shore A	ASTM D2240 / DIN 53505 / ISO R868	50
Tensile strength at break @ 23 °C	Kg/cm ² (N/mm ²)	ASTM D412 / EN-ISO-527-3	45-50 (4.5-5.0)
Elongation @ 23 °C	%	ASTM D412 / EN-ISO-527-3	> 200
Adhesion to concrete	MPa	ASTM D4541	> 1,2 Mpa
H ₂ O absorption	%	-	< 4

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ALCHIMICA S.A. 7 Lampsakou, Athens-GREECE
2085-CPR-082
EN 1504-2:2004 2085 AQUASMART PB Concrete surface protection systems - Coating
www.alchimica.com

Essential characteristics	Performance	Harmonized technical specification
CO ₂ permeability, m	$S_D > 50$	EN 1504-2:2004
Permeability to water vapor, m	$S_D < 5$ Class I	
Capillary absorption, $\text{kg/m}^2 \cdot \text{h}^{0.5}$	$w < 0.1$	
Adhesion strength by pull-off test, N/mm^2	≥ 0.8	
Abrasion resistance, mg	< 3000	
Impact resistance, N.m	≥ 4 Class I	
Reaction to fire	Euroclass F	

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