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/m^2 reinforced with geotextile fabric available from **ALCHIMICA®**.

CERTIFICATION

CE certified acc. EN 1504-02
No: 2085-CPR-061 (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 MPa.

- Humidity: W < 10%.
- Temperature: 5-35 ^oC.
- 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/cm³	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/cm² (N/mm²)	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_2O absorption	%	-	< 4

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ALCHIMICA S.A. 7 Lampsakou, Athens-GREECE
2085-CPR-061/17.11.2020
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, kg/m^{2}·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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