

AQUASMART®-PB

Product Data Sheet

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.

AQUASMART®-PB is also available in a fire retardant version: **AQUASMART®-PB-FR**.

 **Recommended For**

Waterproofing and protection of:

- Foundation walls
- Wet rooms

 **Features & Benefits**

- Water Based
- Easy to Apply & Repair
- Thixotropic
- Seamless
- Elastic
- Quick Curing

 **Limitations**

- Not recommended for unsound substrates.

 **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 technical service department.
- ✓ **Standard concrete substrate conditions:**
 - Hardness: $R_{28} = 15 \text{ Mpa}$
 - Humidity: $W < 10\%$
 - Temperature: $5\text{-}35^\circ\text{C}$
 - Relative humidity: $< 85\%$
- ✓ **Suitable primers :** **AQUASMART®-DUR, MICROSEALER-PU** depending on the substrate. Please contact our technical service 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.

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- ✓ **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.
- ✓ **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.

 **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.

 **Consumption**

Minimum total consumption: **1.5 kg/m²** (Foundation & Footings) & **1.2kg/m²** (Toilets)

 **Safety Information**

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

 **Cleaning**

Clean tools and equipment with water.

 **Technical Specifications**
In Liquid Form (Before application):

Property	Units	Method	Specification
Viscosity (Brookfield)	cP	ASTM D2196-86, @ 25 °C	1,000-7,000
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	N/mm ²	ASTM D412 / EN-ISO-527-3	4.5-5.0
Elongation @ 23°C	%	ASTM D412 / EN-ISO-527-3	>200
H ₂ O absorption	%	-	<4

For more information on Hyperdesmo, Hyperseal & Aquasmart Range of products and application methods
Please contact Alchimica Technical Service at info@alchimica.co.in

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