

AQUASMART® HYBRID-2K

Water based, two-component Fully Aliphatic Polyurethane/Acryl Hybrid Coating.

DESCRIPTION

AQUASMART® HYBRID-2K is a two component, water based, aliphatic polyurethane/Acryl hybrid coating for protection.

The product is easily applied on both vertical and horizontal substrates and forms a seamless, elastic and hydrophobic membrane.

Apply with brush, roller or airless spraying in two coats. The quantity applied is depending on the final use requirements.

RECOMMENDED FOR

protection of:

- PU foam
- Roofs,
- light roofing made of metal or fibrous cement,
- Under tile applications such as wet rooms

LIMITATIONS

Not recommended for:

- Unsound substrates,

FEATURES & BENEFITS

- Water based
- Easy to apply & repair.
- Thixotropic
- Seamless.
- Elastic.
- Highly resistant to stagnating water.
- Water vapor transmission: The film breathes so there is no accumulation of humidity under the coat.
- Excellent weather and UV resistance. The white color reflects much of the solar energy and so reduces the internal temperature of structures considerably.

- Easy coloring of product with almost any water based pigment paste available at hardware stores.
- Use of the standard ALCHIMICA's Primers.

APPLICATION PREREQUISITES

Can be successfully applied on:

Concrete, fibrous cement, cement roof tiles, wood, 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: $5-35$ °C.
- Relative humidity: $< 85\%$.

Suitable primers: **AQUADUR™**, **UNIVERSAL-PRIMER**, **MICROSEALER-PU**, **AQUASMART-DUR** 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:

Use a low speed (300 rpm) mixer . Add second



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ISO 9001/14001 & OHSAS 18001.

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component and continue mixing for a few minutes. Although thinning is not necessary, the material can be further thinned by 5-10% water.

Application:

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



Do not apply under conditions of wet weather or expected wet weather or near freezing temperature.

CONSUMPTION

- Applied with roller or brush -
First coat: 0.6-0.8 kg/m².
Second coat: 0.6-0.9 kg/m².
 - Applied by airless spraying: 0.5 kg/m² per coat.
Minimum total consumption: **1.2-1.5 kg/m²**, for waterproofing.
- For use as a protective paint, recommended consumption is 0,5 Kg/m².

CLEANING

Clean tools and equipment immediately with water.

PACKAGING

2.5 Kg component B + 25 gr Comp. A
12 Kg Component B + 120 gr Comp A

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. Protect from freezing conditions.

SAFETY INFORMATION

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

TECHNICAL SPECIFICATIONS

In liquid form (before application):

70% active substance.

PROPERTY	UNITS	METHOD	SPECIFICATION
Viscosity (Brookfield)	cP	ASTM D2196-86, @ 25 °C	10-15,000
Specific weight	gr/cm ³	ASTM D1475 / DIN 53217 / ISO 2811, @ 20 °C	1.3
Required application temperature	°C	-	> 5

In cured form (after application):

PROPERTY	UNITS	METHOD	SPECIFICATION
Service temperature	°C	-	-20 to 90

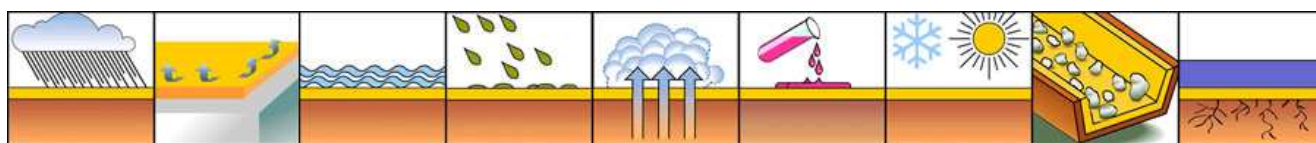


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Hardness	Shore A	ASTM D2240 / DIN 53505 / ISO R868	90
Tensile strength at break @ 23 °C	Kg/cm ² (N/mm ²)	ASTM D412 / EN-ISO-527-3	60 (6.0)
Elongation @ 23 °C	%	ASTM D412 / EN-ISO-527-3	> 300
H ₂ O absorption	%	-	< 5
QUV Accelerated Weathering Test (4hr UV, @ 60 °C (UVB-Lamps) & 4hr COND @ 50 °C)	-	ASTM G53	passed (2,000 hours)
Resistance to sodium Hypochlorite 5%	-	10 days @ 25° C	passed
Resistance to HCl 1N, PH=0.5	-	10 days @ 25° C	passed
Resistance to KOH 15%	-	10 days @ 25° C	passed
Resistance to Isopropyl alcohol	-	10 days @ 25° C	Non-permanent swelling
Resistance to sulphuric acid 5%	-	10 days @ 25° C	passed
Resistance to orthophosphoric acid 10%	-	10 days @ 25° C	passed

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