

AQUASMART® HYBRID-MONO

Very Fast Drying, Water based, Fully Aliphatic Polyurethane Hybrid Coating for Waterproofing and Protection

DESCRIPTION

AQUASMART® HYBRID is a water based, very fast drying, aliphatic Polyurethane hybrid coating for waterproofing and 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 or more coats. The quantity applied is depending on the final use requirements.

COMPLIANCE - CERTIFICATION

CE: ETAG 005, Part 1 & Part 6
CPR-17/0922. See table below.

RECOMMENDED FOR

Waterproofing and Protection of:

- PU foam,
- Roofs,
- Light roofing made of metal or fibrous cement,
- Under tile applications such as wet rooms
- Protection of concrete/reinforced concrete from carbonization

LIMITATIONS

Not recommended for:

- Unsound substrates,

FEATURES & BENEFITS

- Water based
- Very fast drying
- Easy to apply & repair.
- Thixotropic
- Seamless.
- Elastic.
- Highly resistant to stagnating water (ensure proper adhesion-see suitable primers list).

- 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, subject to adequate tests.
- Compatible with all standard **ALCHIMICA's** Primers.

APPLICATION PREREQUISITES

Can be successfully applied on:

Concrete, fibrous cement, cement roof tiles, wood, galvanized steel, PU foam. 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**, **AQUASMART®-DUR**, **AQUASMART®-PU PRIMER 2K** or **MICROSEALER-50**, 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.

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Priming:

Apply recommended primer according to Technical Data Sheet specifications.

For non-demanding applications (where standing water or negative water pressure is not an issue) prime with same material by diluting with 15% water. For more professional applications, apply primers as per above list or contact our technical department for further information.

Mixing:

Use a low speed (300 rpm) mixer. Although thinning is not necessary, the material can be further thinned by 5-10% water.

NOTE: If an even faster drying profile and higher resistance to chemicals is required, you may mix the product with a special hardener (available in 125gr pail) or refer to **AQUASMART® HYBRID-2K**.

Application:

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



Do not apply under conditions of extreme wet weather or imminent rain 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: **>1.5 kg/m²** for waterproofing, depending on project requirements. For use as a protective paint, recommended consumption is 0,5 Kg/m².

CLEANING

Clean tools and equipment immediately with water.

PACKAGING

12 Kg plastic pails

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

AQUASMART[®] HYBRID-MONO

In liquid form (before application):

70% active substance.

| PROPERTY | UNITS | METHOD | SPECIFICATION |
|----------------------------------|--------------------|--|---------------|
| Viscosity (Brookfield) | cP | ASTM D2196-86, @ 25 °C | 15,000-40,000 |
| Specific weight | gr/cm ³ | ASTM D1475 / DIN 53217 / ISO 2811, @ 20 °C | 1.45-1.55 |
| Required application temperature | °C | - | > 5 |

In cured form (after application):

| PROPERTY | UNITS | METHOD | SPECIFICATION |
|--|--|-----------------------------------|-------------------------|
| Service temperature | °C | - | -20 to 90 |
| Hardness | Shore A | ASTM D2240 / DIN 53505 / ISO R868 | 70 |
| Tensile strength at break @ 23 °C | Kg/cm ² (N/mm ²) | ASTM D412 / EN-ISO-527-3 | 50 (5.0) |
| 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) |

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CLASSIFICATION ACCORDING TO EOTA (EUROPEAN ORGANISATION OF TECHNICAL APPROVAL)

| REQUIREMENT | PERFORMANCE | HARMONIZED TECHNICAL SPECIFICATION |
|--|--------------------------|------------------------------------|
| Minimum thickness | 1.6mm | ETAG 005 – part 6 |
| Water vapour diffusion resistance factor (μ) | ~890 | ETAG 005 – part 6 |
| Resistance to wind loads | >50KPa | ETAG 005 – part 6 |
| Statement on dangerous substances | Does not contain any | ETAG 005 – part 6 |
| External fire performance | NPD | ETAG 005 – part 6 |
| Expected working life | W2 (10 Years) | ETAG 005 – part 6 |
| Climatic zone of use | S (Severe) | ETAG 005 – part 6 |
| User loads | P1 to P3 (P3 REINFORCED) | ETAG 005 – part 6 |
| Roof slopes | S1 to S4 | ETAG 005 – part 6 |
| Minimum surface temperatures | TL3 (-20°C) | ETAG 005 – part 6 |
| Maximum surface temperatures | TH4 (90°C) | ETAG 005 – part 6 |

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