

**GENERAL**  
MEMBRANE

**GENERAL SMART**



[www.generalmembrane.com](http://www.generalmembrane.com)

**STOPPING THE WATER**

## WATER BASED, FULLY ALIPHATIC POLYURETHANE/ACRYL HYBRID COATING

AQUASmart® HYBRID is a 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

### 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:  $< 85\%$ .

### FEATURES AND BENEFITS

- Water based
- Easy to apply & repair
- Thixotropic
- Seamless
- Elastic
- Highly resistant to stagnating water (ensure proper adhesion)
- 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

### CONSUMPTION

- Applied with roller or brush -
  1. First coat: 0.6-0.8 kg/m<sup>2</sup>.
  2. Second coat: 0.6-0.9 kg/m<sup>2</sup>.
- Applied by airless spraying: 0.5 kg/m<sup>2</sup> per coat.

Minimum total consumption: **1.2-1.5 kg/m<sup>2</sup>**, for waterproofing.

For use as a protective paint, recommended consumption is 0,5 Kg/m<sup>2</sup>.

### CLEANING

Clean tools and equipment immediately with water.

### 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. For non-demanding applications (where standing water is not an issue) prime with same material by diluting with 15% water. For more professional application apply Aquadur or Aquasmart Dur primer or contact our technical department for further information.

#### Mixing:

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

### QUALITY & CERTIFICATIONS



### PACKAGING

4 Kg, 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 oC. Once opened, use as soon as possible. Protect from freezing conditions.

### SAFETY INFORMATION

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

All membranes made by General Membrane Spa are manufactured using unblown asphalt and do not contain either tar from coal or asbestos nor any other dangerous elements, according to law. (cfr. D.M. January 1992, all.to III p.to 2). Modified bitumen membranes mentioned in this technical data sheet are not submitted to fulfil the obligations of issuing the safety form according to DM of 28.01.92 part 10 "classifications and packaging methods and ticketing of dangerous compounds according to European directives". Complete information / safety form available upon request. Technical characteristics are related to current production. General Membrane SpA reserves the right to improve and change its products any time. It is the customer's duty to set the suitability between the product and its use.

**for more informations: [export@generalmembrane.com](mailto:export@generalmembrane.com)**

## WATER BASED, FULLY ALIPHATIC POLYURETHANE/ACRYL HYBRID COATING

### TECHNICAL SPECIFICATIONS

#### In liquid form (before application):

70% active substance.

PROPERTY	UNITS	METHOD	SPECIFICATION
Viscosity (Brookfield)	cP	ASTM D2196-86, at 25°C	2000-5000
Specific weight	gr/cm <sup>3</sup>	ASTM D1475 / DIN 53217 / ISO 2811, at 20°C	1.3
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 at 23°C	Kg/cm <sup>2</sup> (N/mm <sup>2</sup> )	ASTM D412 / EN-ISO-527-3	50 (5.0)
Elongation at 23°C	%	ASTM D412 / EN-ISO-527-3	> 300
H <sub>2</sub> O absorption	%	-	< 5
QUV Accelerated Weathering Test (4hr UV, at 60°C (UVB-Lamps) & 4hr COND at 50°C)	-	ASTM G53	passed (2,000 hours)

All membranes made by General Membrane Spa are manufactured using unblown asphalt and do not contain either tar from coal or asbestos nor any other dangerous elements, according to law. (cfr. D.M. January 1992, all.to III p.to 2). Modified bitumen membranes mentioned in this technical data sheet are not submitted to fulfill the obligations of issuing the safety form according to DM of 28.01.92 part 10 "classifications and packaging methods and ticketing of dangerous compounds according to European directives". Complete information / safety form available upon request. Technical characteristics are related to current production. General Membrane SpA reserves the right to improve and change its products any time. It is the customer's duty to set the suitability between the product and its use.

**for more informations: [export@generalmembrane.com](mailto:export@generalmembrane.com)**