

AQUASMART® THERMO

Water based, one component Fully Aliphatic Polyurethane Insulating Paint

DESCRIPTION

AQUASMART® THERMO is a one component, water based insulating paint for both interior and exterior use. It is a 100% aliphatic, water-based polyurethane with exceptional performance in difficult climatic conditions.

AQUASMART® THERMO is a unique insulating product specifically designed to reduce unwanted summer time heat gain and unwanted winter time heat loss from buildings to which it has been applied. The product retains its insulating properties due to the fact that the cells are 100% closed always.

Apply with brush or roller, airless spray is possible; please contact our technical department for further details.

Consumption: 2 Lt/m² (1 Lt product gives a dry film thickness of 1mm).

RECOMMENDED FOR

The product is recommended as an insulating wall paint for both interior and exterior walls. It is elastic and has excellent crack bridging properties even in very low temperatures.

LIMITATIONS

Not recommended for:

- Unsound substrates,
- Not for direct UV exposure. Paint over with either Aquasmart PU PAINT or Aquasmart-Hybrid

FEATURES & BENEFITS

- Excellent insulating properties, 100% closed cells.

- Water based
- Easy to apply & repair.
- Thixotropic
- Elastic even at below zero temperatures.
- Capable of bridging small cracks.
- Water vapor transmission: The film breathes so there is no accumulation of humidity under the coat.
- Easy coloring of product with almost any water based pigment paste available at hardware stores.

APPLICATION PREREQUISITES

Can be successfully applied on:

Concrete, stucco, over old acrylic well adhered paints.

APPLICATION PROCEDURE

Priming: Depending on the application specifications and performance demands various primers may be used.

For humidity barrier properties we recommend the use of either **AQUADUR™**, **AQUASMART® EPOXY PRIMER**.

For refurbishment over old acrylic paint please contact our technical department.

Mixing:

Use a low speed (100 rpm) mixer. Although thinning is not necessary, the material can be further thinned by 5-10% water.

Application:

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



Do not apply under conditions of wet

AQUASMART® THERMO

weather or expected wet weather or on low temperature.

CONSUMPTION

- 2 Lt/m² in 1 or more coats.

CLEANING

Clean tools and equipment immediately with water.

PACKAGING

1 Lt, 4 Lt, 10 Lt

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	10,000 -15,000
Specific weight	gr/cm ³	ASTM D1475 / DIN 53217 / ISO 2811, @ 20 °C	0,4-0,5
Required application temperature	°C	-	> 5

In cured form (after application):

PROPERTY	UNITS	METHOD	SPECIFICATION
Heat conductivity	w/mk	EN ISO 12667	0,04
Service temperature	°C	-	-20 to 90
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

AQUASMART[®] THERMO

NONE OF OUR PUBLISHED INSTRUCTIONS AND SPECIFICATIONS, IN WRITING OR OTHERWISE, ARE BINDING EITHER IN GENERAL OR WITH RESPECT TO ANY THIRD PARTY RIGHTS, OR DO THEY RELIEVE INTERESTED PARTIES OF THEIR DUTY TO SUBJECT THE PRODUCT TO AN ADEQUATE EXAMINATION OF ITS SUITABILITY. IN NO EVENT WILL ALCHIMICA S.A. BE RESPONSIBLE FOR DAMAGES OF ANY NATURE, WHATSOEVER, RESULTING FROM THE USE OF OR RELIANCE UPON INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.

