

ADVATHANE PU COATING SOLVENT

Polyurethane liquid membrane for waterproofing & protection, easy application.

DESCRIPTION

ADVATHANE PU COATING SOLVENT is a simple and economic solution for waterproofing and protection. It is a one component, low viscosity, polyurethane fluid which cures with the humidity in the atmosphere to produce a highly elastic membrane with strong adhesion to many types of surfaces.

It is based on pure elastomeric hydrophobic polyurethane resin plus special inorganic fillers, which result in excellent mechanical, chemical, thermal, UV and natural element resistance properties.

Apply with brush, roller or airless spraying in two coats. Minimum total consumption: 1.2-1.5 kg/m².

RECOMMENDED FOR

Waterproofing and protection of:

- Gypsum and cement boards,
- tiles (under),
- bathrooms,
- roofs,
- light roofing made of metal or fibrous cement,
- asphalt membranes.

LIMITATIONS

Not recommended for:

- unsound substrates,
- waterproofing of swimming pool surfaces in contact with chemically treated water.

FEATURES & BENEFITS

- No thinning is required but SOLVENT-01 may be used.
- Excellent weather and UV resistance. The white colour reflects much of the solar energy and so reduces the internal temperature of buildings considerably.
- Excellent thermal resistance, the product never turns soft. Max service temperature 80 °C, max shock temperature 200 °C.
- Resistance in the cold: The film remains elastic even down to -40 °C.
- Excellent mechanical properties.
- Good chemical resistance.
- Non-toxic after full cure.
- Water vapor transmission: The film breathes so there is no accumulation of humidity under the coat.

APPLICATION PREREQUISITES

Can be successfully applied on:

Concrete, fibrous cement, mosaic, cement roof tiles, old (but well adhered) acrylic and asphalt coats, wood, corroded metal, galvanized steel. For information about other substrates, please contact our tech department.

Concrete substrate conditions (standard):

- Hardness: $R_{28} = 15\text{Mpa}$.
- Humidity: $W < 10\%$.
- Temperature: 5-35 °C.
- Relative humidity: $< 85\%$.

Primer selection for special conditions and substrates:

Please refer to the **Primer Selection Table**.

APPLICATION PROCEDURE

Clean the surface using a high pressure washer, if possible. Remove oil, grease and wax contaminants. Cement laitance, loose particles, mould release agents, cured membranes must be removed. Fill surface irregularities with the necessary product.

Priming:

Apply the required primer following the guidelines above.

Mixing:

Use a low speed (300 rpm) mixer. May optionally be thinned with 5-10% SOLVENT-01. For application by spraying (airless) thin with 10% SOLVENT-01.

Application:

Apply the material with roller or brush in two, at least, coats. Leave 6-24 hours between coats. If more time passes (for example more than 4 days) or if you are unsure of the interlayer adhesion, use UNIVERSAL PRIMER-2K-4060.

CONSUMPTION

First coat: 0.6-0.8 kg/m².

Second coat: 0.6-0.9 kg/m².

Minimum total consumption: **1.2-1.5 kg/m²**.

TECHNICAL SPECIFICATIONS**The product in liquid form (before application):**

95% dry matter in Xylol.

PROPERTY	UNITS	METHOD	SPECIFICATION
Viscosity (BROOKFIELD)	cP	ASTM D2196-86, @ 25 °C	3000-6000
Specific weight	gr/cm ³	ASTM D1475 / DIN 53217 / ISO 2811, @ 20°C	1.3-1.4
Flash point	°C	ASTM D93, closed cup	42
Tack free time, @ 77 °F (25 °C) & 55% RH	hours	-	4
Recoat time	hours	-	6-24

CLEANING

Clean tools and equipment first with paper towels and then using SOLVENT-01. Rollers will not be re-usable.

PACKAGING

1 kg, 6 kg, 15 kg, 25 kg and 200 kg drums.

SHELF LIFE

Can be kept for minimum 12 months in the original unopened pails in dry places and at temperatures of 5-25 °C. Once a pail has been opened, use as soon as possible.

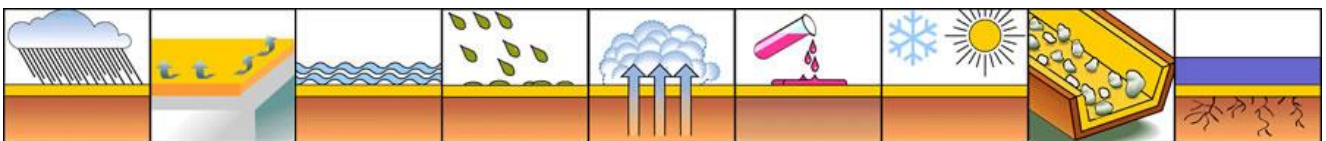
PRECAUTIONS

Contains volatile flammable solvents. Apply in well-ventilated, no smoking areas, away from naked flames. In closed spaces use ventilators and carbon active masks. Keep in mind that solvents are heavier than air so they creep on the floor. The MSDS (Material Safety Data Sheet) is available on request.

The cured membrane:

PROPERTY	UNITS	METHOD	SPECIFICATION
Service temperature	°C	-	-40 to 80
Max. temperature short time (shock)	°C	-	200
Hardness	Shore A	ASTM D2240 / DIN 53505 / ISO R868	60
Tensile strength at break @ 23 °C	Kg/cm ² (N/mm ²)	ASTM D412 / DIN 52455	55
Percent elongation @ 23 °C	%	ASTM D412 / DIN 52455	> 300
Water vapor transmission	gr/m ² .hr	ASTM E96 (Water Method)	0.8
Adhesion to concrete	Kg/cm ² (N/mm ²)	ASTM D4541	> 20 (> 2)
QUV Accelerated Weathering Test (4hr UV, @ 60 °C (UVB-Lamps) & 4hr COND @ 50 °C)	-	ASTM G53	passed (2000 hours)
Hydrolysis (8% KOH, 15 days @ 50°C)	-	-	no significant elastomeric property change
Hydrolysis (H ₂ O, 14-day cycle RT-100 °C)	-	-	no significant elastomeric property change
Hydrolysis (H ₂ O, 30-day cycle 60-100 °C)	-	-	no significant elastomeric property change
HCL (PH=2, 10 days @ RT)	-	-	no significant elastomeric property change
Thermal resistance (100 days @ 80 °C)	-	EOTA TR011	passed

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 AL MUTATHAWIR INSU. MAT. INDS. BE RESPONSIBLE FOR DAMAGES OF ANY NATURE, WHATSOEVER, RESULTING FROM THE USE OF OR RELIANCE UPON INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.



The information given in this data sheet is based on both current development work and many years of field experience. Whilst every effort is made to ensure that the information is reliable, we cannot accept responsibility for any work carried out with our materials as we have no control over methods of application, site, conditions etc.



Al Murathawir Insulation Materials Industries L.L.C.

T: + 971 6 534 5585 | F: + 971 6 534 7717 | P.O. Box: 22704 , Sharjah, U.A.E
E: info@aim-insu.com | W: www.aim-insu.com