



ADVATHANE PU COATING

Solvent Based

DESCRIPTION

ADVATHANE PU COATING is the industry standard in waterproofing. For over 30 years, it has provided a simple solution for waterproofing and protection. It is a one component, low viscosity, polyurethane fluid that 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: 1.5 – 1.8kg/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.
- ▶ As the main waterproofing membrane in car park waterproofing system

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 90 °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.

COMPLIANCE CERTIFICATION

- ▶ ASTM C 836-95
- ▶ DCL Certification

LIMITATIONS

Not recommended for:

- ▶ Unsound substrates (in some cases, application is possible with the use of geotextile reinforcement; please contact our technical department for consultations).
- ▶ Waterproofing of swimming pool surfaces in contact with chemically treated water.



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APPLICATION PREREQUISITES

Can be successfully applied on:

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

Concrete substrate conditions (standard):

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

Primer selection for special conditions and substrates:

Please refer to the ADVATHANE PRIMER

APPLICATION PROCEDURES

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 appropriate products.

Priming:

Apply the required primer following the guidelines above.

Application:

Apply the material with roller or brush in at least two 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, please contact our technical department.

CONSUMPTION

First coat: $0.75\text{-}0.9\text{ kg/m}^2$

Second coat: $0.75\text{-}0.9\text{ kg/m}^2$

Minimum total consumption: $1.5\text{-}1.8\text{ kg/m}^2$



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TECHNICAL SPECIFICATIONS

The product in liquid form (before application):

| 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 | 1.35-1.45 |
| Flash point | °C | ASTM D93, closed cup | 42 |
| Tack free time, @ 77 °F (25 °C) & 55% RH | hours | - | 4 |
| Recoat Time | hours | - | 6-24 |

The cured membrane

| PROPERTY | UNITS | METHOD | SPECIFICATION |
|-------------------------------------|--|--|---------------|
| Service temperature | °C | - | -40 to 90 |
| 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 / EN-ISO-527-3 | > 80 (>8) |
| Percent elongation @ 23°C | % | ASTM D412 / EN-ISO-527-3 | > 500 |
| 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) |
| Shelf Life | - | Can be kept for minimum 12 months in the original unopened pails in dry places and at temperature of 5-25°C. Once a pail has been opened, use as soon as possible. | |
| Packaging | Kg | - | 25/Pail |

The information given in this datasheet 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.