

PU-FINISH MATTE

One-component, low-viscosity, transparent, aliphatic polyurethane liquid membrane for satin finish.

DESCRIPTION

PU-FINISH MATTE is a one-component, low viscosity polyurethane fluid which cures with the humidity in the atmosphere to produce a transparent membrane with very strong adhesion on most types of substrate. It is aliphatic: No yellowing as a result of direct exposure to sunlight.

It is based on pure elastomeric hydrophobic polyurethane resin, which results in excellent mechanical, chemical, thermal, UV and natural element resistance properties.

Apply with brush in one or two coats. Minimum total consumption: 0.1-0.2 kg/m².

RECOMMENDED FOR

- Provides very good impregnation of stone, porous marble & mosaics.
- Provides satin finish to **HYPERDESMO®-T** and other aliphatic topcoats.

LIMITATIONS

Not recommended for:

- Unsound substrates,
- application in thick coats,



Apply in very **thin** coats in order to avoid bubbling.

- Pigmentation: its low viscosity reduces hiding power therefore more than one coat may be required depending on the color
- The product has limited resistance to staining and therefore in the case that a stain resistant

or very easy clean final surface is required, a final layer of **AQUASMART TC FLOOR PROTECT** should be used.

FEATURES & BENEFITS

- Satin result,
- excellent impregnation, even if substrate is only slightly porous, e.g. marble, mosaic,
- excellent heat and ultraviolet/UV resistance, it will not yellow, peel or soften up to 80 °C, max shock temperature 200 °C,
- highly durable when exposed to cold, maintains its elasticity even down to -40 °C,
- highly resistant to mechanical stresses (high tensile strength and abrasion resistance),

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.

Preparation:

When stirring take care not to introduce air in the fluid, which may result in bubbling on the cured membrane.

Application:

Apply with brush in one or two coats. Second coat is applied within 6-24 hours.

CONSUMPTION

Minimum total consumption: 0.1-0.2 kg/m².

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CLEANING

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

PACKAGING

1 lt, 4 lt and 20 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

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.

TECHNICAL SPECIFICATIONS

In liquid form (before application):

PROPERTY	UNITS	METHOD	SPECIFICATION
Viscosity (Brookfield)	cP	ASTM D2196-86, @ 25 °C	80-120
Specific weight	gr/cm ³	ASTM D1475 / DIN 53217 / ISO 2811, @ 20 °C	0.90-0.95
Tack free time, @ 77 °F (25 °C) & 55% RH	hours	-	6-12
Recoat time	hours	-	12-24

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The cured membrane:

PROPERTY	UNITS	METHOD	SPECIFICATION
Service temperature	°C	-	-40 to 80
Max. temperature short time (shock)	°C	-	200
Hardness	Shore D	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	550 (55)
Percent elongation @ 23 °C	%	ASTM D412 / EN-ISO-527-3	> 50
Water vapor transmission	gr/m ² .hr	ASTM E96 (Water Method)	0.8
Thermal resistance (100 days @ 80 °C)	-	EOTA TR011	passed
Hydrolysis (Potassium Hydroxide 8%, 10 days @ 50 °C)	-	-	no significant elastomeric property change
Hydrolysis (Sodium Hypochlorite 5%, 10 days)	-	-	no significant elastomeric property change
Water absorption	-	-	< 1.0%
Abrasion Resistance	gr	ASTM D4060 (1000 REVS, 1000 gr load, cs17 wheels)	-0,03 gr

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