

HYPERDESMO[®]-850

One component, fast curing, thixotropic polyurethane liquid membrane for flashing and seamless waterproofing.

DESCRIPTION

HYPERDESMO[®]-850 is a one component, thixotropic, polyurethane liquid ideal for applications where rheology is very important. Examples of such applications are very sloped roofs, flashing details, under tile waterproofing.

HYPERDESMO[®]-850 is a rapid curing material that displays tack free time of less than 2 hours. It cures with the humidity in the atmosphere to produce a highly elastic membrane with strong adhesion to many types of surfaces. Being thixotropic, it can easily be applied on vertical surfaces without running.

It is based on pure, elastomeric, hydrophobic, polyurethane resin, which results in excellent waterproofing properties.

Apply with brush, roller or airless spraying in one or two coats with minimum total consumption of +/- 1.5 kg/m².

COMPLIANCE

Exceeds the requirements of ASTM C836-95.

RECOMMENDED FOR

Waterproofing and protection of:

- sloped surfaces
- bathrooms,
- verandas and balconies (under tile),
- flower pots,
- basements,
- foundations (not a humidity barrier).

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.



For exposed use, a protective topcoat of **HYPERDESMO[®]-ADY 500** is recommended in order to maintain long-term solar reflectance and better colour protection.

FEATURES & BENEFITS

- Thixotropic: Easily applied on vertical or sloped surfaces and complex shapes without running or bubbling.
- Excellent adhesion on almost any type of surface, with or without the use of special primers.
- No thinning is required but SOLVENT-01 may be used.
- Excellent thermal resistance, the product never turns soft. Max service temperature 80 °C.
- Resistance to cold: The film remains elastic even down to -40 °C.
- Excellent mechanical properties.
- 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, and galvanized steel. For information about other substrates, please contact our technical department.

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Concrete substrate conditions (standard):

- Hardness: $R_{28} = 15$ 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 appropriate products.

Priming:

Apply the required primer following the guidelines above.

Mixing:

Use a low speed (300 rpm) mixer.

Application:

Apply on DRY surface with roller, brush or airless spraying in one or two coats. Do not leave more than 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

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

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, 25 kg

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.

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.

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TECHNICAL SPECIFICATIONS

The product in liquid form (before application):

~90% dry matter in Xylol.

PROPERTY	UNITS	METHOD	SPECIFICATION
Viscosity (Brookfield)	cP	ASTM D2196-86, @ 25 °C	2,000-4,000
Specific weight	gr/cm ³	ASTM D1475 / DIN 53217 / ISO 2811, @ 20 °C	1.45-1.55
Flash point	°C	ASTM D93, closed cup	> 42
Tack free time, @ 77 °F (25 °C) & 55% RH	hours	-	2-4
Recoat time	hours	-	4-24

The cured membrane:

PROPERTY	UNITS	METHOD	SPECIFICATION
Service temperature	°C	-	-40 to 80
Hardness	Shore A	ASTM D2240 / DIN 53505 / ISO R868	70
Tensile strength at break @ 23 °C	kg/cm ² (N/mm ²)	ASTM D412 / EN-ISO-527-3	>40 (> 4)
Percent elongation @ 23 °C	%	ASTM D412 / EN-ISO-527-3	> 600
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)

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