

HYPERDESMO[®]-750

One component, high elasticity, polyurethane liquid membrane for flashing and seamless waterproofing.

DESCRIPTION

HYPERDESMO[®]-750 is a one component, thixotropic, polyurethane liquid used as basecoat in under-tile or protected applications.

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. Also, due to its combination of high elongation and low modulus properties, it is highly effective when used for crack-bridging.

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 1.0-1.2 kg/m².

COMPLIANCE

Exceeds the requirements of ASTM C836-95.

RECOMMENDED FOR

Waterproofing and protection of:

- Bathrooms,
- verandas and balconies (under tile),
- flower pots,
- roofs (as basecoat),
- basements,
- foundations (not a humidity barrier).

LIMITATIONS

Not recommended for:

- Unsound substrates,

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



For exposed use, a protective topcoat of **HYPERDESMO[®]-ADY-E** (always pigmented) is required.

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, high elongation and tensile strength.
- Good chemical resistance.
- Water vapor transmission: The film breathes so there is no accumulation of humidity under the coat (for humidity barrier see **HYPERDESMO[®]-PB-1K** & **HYPERDESMO[®]-PB-2K**).

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.



Certified quality, environmental and occupational health & safety management systems:
ISO 9001/14001 & OHSAS 18001.

HYPERDESMO[®]-750

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 the necessary product.

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 48 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

Consumption per coat: $0.5-0.6$ kg/m².

Minimum total consumption: **1.2-1.5 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, 5 kg, 15 kg, 20 kg and 200 kg drums.

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.

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	3800-4000
Specific weight	gr/cm ³	ASTM D1475 / DIN 53217 / ISO 2811, @ 20 °C	1.1
Flash point	°C	ASTM D93, closed cup	> 42



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HYPERDESMO[®]-750

Tack free time, @ 77 °F (25 °C) & 55% RH	hours	-	5-6
Recoat time	hours	-	6-24

The cured membrane:

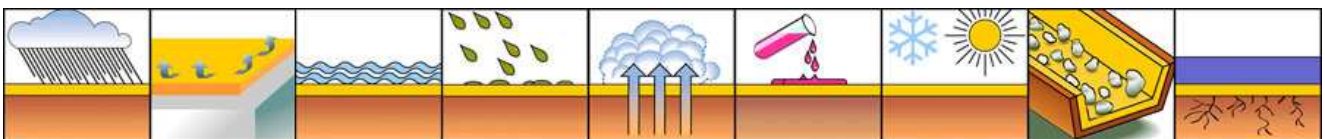
PROPERTY	UNITS	METHOD	SPECIFICATION
Service temperature	°C	-	-40 to 80
Hardness	Shore A	ASTM D2240 / DIN 53505 / ISO R868	~30
Tensile strength at break @ 23 °C	Kg/cm ² (N/mm ²)	ASTM D412 / EN-ISO-527-3	3
Percent elongation @ 23 °C	%	ASTM D412 / EN-ISO-527-3	> 750
Water vapor transmission	gr/m ² .hr	ASTM E96 (Water Method)	0.8
Adhesion to concrete	kg/cm ² (N/mm ²)	ASTM D4541	> 20 (> 2)
Hydrolysis (8% KOH, 14 days @ RT)	-	-	no significant elastomeric property change
Hydrolysis (H ₂ O, 14 days @ RT-100 °C cycle)	-	-	no significant elastomeric property change
Hydrolysis resistance (Potassium Hydroxide 8%, 10 days @ 50 °C)	-	-	unaffected
Hydrolysis resistance (Sodium Hypochlorite 5%, 10 days)	-	-	unaffected
Thermal resistance (100 days @ 80 °C)	-	EOTA TR011	Passed
H ₂ O absorption (10 days)	-	-	< 1.3%



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