

HYPERDESMO® S-WR

Polyurethane liquid membrane for waterproofing of wet rooms and non-exposed applications.

DESCRIPTION

HYPERDESMO®-WR is a result of Alchimica's investment in new production facilities and polymerization procedures. This investment facilitated the manufacture of a low solvent Hyperdesmo® i.e a non-flammable material without hazardous transportation limitations (non-imo).

The product is a one component polyurethane fluid which cures with the humidity in the atmosphere. It produces a highly elastic, hydrophobic membrane and has been designed to offer excellent long term waterproofing of wet rooms, substructures and any application not exposed to UV. The rheology of the material is such that it allows easy application even on vertical substrates.

The use of all Hyperdesmo® range additives is possible: Accelerator 3000, Thixo Tool, Solvent 01 and Alchimica pigment pastes.

Full range of Primers used in classic Hyperdesmo system applies to HYPERDESMO®-S as well.

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

RECOMMENDED FOR

Waterproofing of:

- Wet rooms
- Foundation walls
- Flat roofs, under tile or screed,
- verandas and balconies (under protection)

LIMITATIONS

Not recommended for:

- UV exposure
- Not recommended for applications where high temperatures are involved. Not recommended for waterproofing under dark color tiles or on thermo-insulating materials.
- Unsound substrates,
- Waterproofing of swimming pool surfaces in contact with chemically treated water.

FEATURES & BENEFITS

- Highly Elastic
- Easy application even on vertical substrates
- Resistance to cold: The film remains elastic even down to -40 °C.
- Non-toxic after full cure.
- Water vapor transmission: The film breathes so there is no accumulation of humidity under the coat.
- Special primers available for almost any substrate.

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.

Standard concrete substrate conditions (no primer needed):

- Hardness: R₂₈ = 15 Mpa.
- Humidity: W < 10%.
- Temperature: 5-35 °C.

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- Relative humidity: < 85%.

Primer selection for special conditions and substrates:

Please refer to the *Primer Selection Table*.

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. Surface irregularities should also be filled with **HYPERSEAL[®]-25LM**.

Priming:

Apply the required primer following the guidelines above.

Mixing:

Use a low speed (300 rpm) mixer. Add SOLVENT-01 5-10% for application by spraying.

Application:

Apply with roller, brush or airless spraying (200-250 bar) in two, at least, coats. Do not exceed 48

hours between coats.

CONSUMPTION

Minimum total consumption: **1.5 kg/m²** in one or two coats.

CLEANING

Clean tools and equipment first with paper 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 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

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	2500-5000
Specific weight	gr/cm ³	ASTM D1475 / DIN 53217 / ISO 2811, @ 20 °C	1.5

In cured form (after application):

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PROPERTY	UNITS	METHOD	SPECIFICATION
Service temperature	°C	-	-40 to 60
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	30 (3.0)
Elongation @ 23 °C	%	ASTM D412 / EN-ISO-527-3	> 1000
Water vapor transmission	gr/m ² .hr	ASTM E96 (Water Method)	0.8

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DOP: CPR-376-3-176/PC-II-2**EN 1504-2****Surface Protection Products – Coating**

Permeability to CO ₂	SD>50 m
Permeability to water vapour	SD<5 m Class I (permeable)
Capillary absorption & permeability to water	W<0.1 kg/m ² .h ^{0.5}
Adhesion strength by pull-off test	≥1.5 (1.0) N/mm ²
Adhesion strength after thermal compatibility	≥1.5 (1.0) N/mm ²
Reaction to fire	Euroclass F
Dangerous substances	In accordance with 5.3
Artificial weathering according to EN 1062-11, for outside application	No change
-blistering	
-cracking	
-flaking	
-colour change	

