HYPERDESMO® S-WR

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

DESCRIPTION

HYPERDESMO® S-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. it is not subject to ADR regulation and can be transported as non-flammable material without hazardous transportation limitations (non-IMO).

The product is a one component polyurethane fluid that 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 **HYPERDESMO®** range additives is possible: ACCELERATOR-3000A or SOLVENT-01.

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

Apply with brush, roller or airless spraying in one or two coats with minimum total consumption of 1.5 kg/m^2.

COMPLIANCE-CERTIFICATION

The product is **CE** certified: 2085-CPR-061 according to the European Standard EN 1504-2.

Root resistance according to CEN/TS 14416.

RECOMMENDED FOR

Waterproofing of:

- Wet rooms
- Foundation walls
- Flat roofs (under tiles or screed)
- Verandas and balconies (under protection)

LIMITATIONS

Not recommended for:

- UV exposure.
- Applications where high temperatures are expected. Not recommended for waterproofing under dark color tiles (outdoors) 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/steel reinforced concrete or otherwise, fibrous cement, mosaic, cement roof tiles, wood, corroded metal, and galvanized steel. For information about other substrates, please contact our tech department.

Standard concrete substrate conditions (no primer needed):

- Hardness: R_{28} = 15 MPa.
- Humidity: W < 10%.
- Temperature: 5-35 °C.
- Relative humidity: < 85%.

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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-S** or **HYPERSEAL®-EXPERT**.

Priming:
Apply the required primer following the guidelines above.

Mixing:
Use a low speed (300 rpm) mixer. Add SOLVENT-01 at 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

6 kg, 25 kg pails
Colour: Black

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 upon request.

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TECHNICAL SPECIFICATIONS

In liquid form (before application):

PROPERTY	UNITS	METHOD	SPECIFICATION
Viscosity (Brookfield)	cP	ASTM D4287, @ 25 °C	5,000-10,000
Specific weight	gr/cm^3	ASTM D1475 / DIN 53217 / ISO 2811, @ 20 °C	1.50-1.60

In cured form (after application):

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	>20 (>2)
Elongation @ 23 °C	%	ASTM D412 / EN-ISO-527-3	> 1000
Water vapor transmission	gr/m^2.hr	ASTM E96 (Water Method)	0.8

HYPERDESMO® S-WR

CE
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ALCHIMICA S.A. 7 Lampsakou Str, ATHENS – GREECE
2085-CPR-061/05.03.2020
EN 1504-2: 2004 2085 HYPERDESMO S-WR Surface Protection Products – Coating
www.alchimica.com

Essential characteristics	**Performance**	**Harmonized technical specification**
Permeability to CO_2	SD>50 m	EN 1504-2: 2004
Permeability to water vapour	SD<5 m Class I (permeable)	
Capillary absorption & permeability to water	W<0.1 kg/m2.h0.5	
Adhesion strength by pull-off test	≥1.5 (1.0) N/mm2	
Adhesion strength after thermal compatibility	≥1.5 (1.0) N/mm2	
Reaction to fire	Euroclass F	
Dangerous substances	In accordance with 5.3	
Artificial weathering according to EN 1062-11, for outside application -blistering -cracking -flaking -colour change	No change	

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