

# HYPERDESMO®-PARTICULAR

## One-component, polyurethane membrane used for roof-details waterproofing

### DESCRIPTION

**HYPERDESMO®-PARTICULAR** is a thixotropic and fiber-reinforced, one component polyurethane liquid membrane used for waterproofing and protection of roof detail structures.

Due to its unique formulation, it cures rapidly to form a bubble free thick layer membrane with excellent mechanical properties. This product is ideal for use during the winter months or in climates with relatively low humidity.

Apply with brush or roller. Minimum consumption: 1.8 kg/m<sup>2</sup>.

### COMPLIANCE

The product is **CE** certified: 2928-CPR-55 according to the European Standard EN 1504-2.

### RECOMMENDED FOR

Waterproofing and protection of:

- flashings
- wall-floor connections
- chimneys
- pipes
- photovoltaic systems
- air-condition units
- gutters

### FEATURES & BENEFITS

- No reinforcement necessary in flashing points
- Fast curing! Skin formation time of 2 hours.
- Bubble and defect free membrane.
- Excellent weather and UV resistance.
- Excellent thermal resistance, the product never turns soft. Recommended service temperature 80 °C, max shock temperature 200 °C.

- Resistance in the cold: The film remains elastic even down to -40 °C.
- Excellent mechanical properties, high tensile and tear strength, high abrasion resistance.
- Good chemical resistance.

### APPLICATION PREREQUISITES

#### Can be successfully applied on:

Concrete/steel reinforced concrete or otherwise, fibrous cement, mosaic, cement roof tiles, old (but well adhered) acrylic and asphalt coats, wood. For information about other substrates, please contact our tech department.

#### Standard concrete substrate conditions

- Strength: C20/25.
- Humidity:  $W \leq 5\%$ .
- Temperature: 5-35 °C.
- Relative humidity:  $< 85\%$ .

### 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.

### CONSUMPTION

Minimum total consumption: **1,8 kg/m<sup>2</sup>**.

### 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

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### SHELF LIFE

Can be kept for minimum 12 months in the original unopened pails in dry places and at temperatures of 5-25 °C. Once a pail has been 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

#### In liquid form (before application):

PROPERTY	UNITS	METHOD	SPECIFICATION
Viscosity (BROOKFIELD)	cP	ASTM D4287, @ 25 °C	3,000-6,000
Specific weight	gr/cm <sup>3</sup>	ASTM D1475 / DIN 53217 / ISO 2811, @ 20°C	1.4-1.5
Flash point	°C	ASTM D93, closed cup	42
Tack free time, @ 77 °F (25 °C) & 55% RH	hours	-	2-3
Recoat time	hours	-	6-48

#### The cured membrane:

PROPERTY	UNITS	METHOD	SPECIFICATION
Service temperature	°C	-	-40 to 80
Max. temperature short time (shock)	°C	-	200
Hardness	Shore A	ASTM D2240 / DIN 53505 / ISO R868	70
QUV Accelerated Weathering Test (4hr UV, @ 60 °C (UVB-Lamps) & 4hr COND @ 50 °C)	-	ASTM G53	passed (2,000 hours)

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<b>CE</b>
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<b>ALCHIMICA S.A.</b> 7 Lampsakou Str, ATHENS – GREECE
2928-CPR-55
EN 1504-2: 2004 2928 HYPERDESMO® PARTICULAR Surface Protection Products – Coating
www.alchimica.com

Essential characteristics	Performance	Harmonized technical specification
Permeability to CO <sub>2</sub>	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/m <sup>2</sup> .h <sup>0.5</sup>	
Adhesion strength by pull-off test	≥1.5 (1.0) N/mm <sup>2</sup>	
Reaction to fire	Euroclass F	

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