

HYPERDESMO®-ADY 610

One component, non-yellowing, elastic, polyurethane liquid membrane

DESCRIPTION

HYPERDESMO®-ADY 610 is a fully aliphatic, one component, polyurethane liquid membrane. Upon curing, it produces a tough but highly elastic non-yellowing membrane. The product has been developed in order to offer a solution when application requires color stability but also application in one coat. This application in one coat is an excellent way to save on labor but also to minimize errors that occur with multi-layer applications due primarily to inter-adhesion failures.

HYPERDESMO®-ADY 610 is self-levelling, with a good viscosity profile over a large temperature range that will cure to form a bubble free membrane that is recommended to be applied in only one coat.

The product will retain its color stability even when applied in dark colors, and especially when applied in white it will have excellent solar reflectance for many years.

Apply using brush, roller or airless spraying.
Consumption: 1,5 – 2 Kg/m²

COMPLIANCE - CERTIFICATION

HYPERDESMO®-ADY 610 is **CE** certified as part of the **HYPERDESMO®** System, offering increased UV resistance and colour protection. The product is **CE** certified: 2928-CPR-111 & 55 according to the European Standard EN 1504-2.

RECOMMENDED FOR

- roofs,
- verandas and balconies,
- polyurethane insulation foams,
- light roofing made of metal or fibrous cement,
- gypsum and cement boards,

- asphalt and EPDM membranes.

LIMITATIONS

Not recommended for:

Unsound substrates.

Waterproofing of swimming pool surfaces in contact with chemically treated water.

FEATURES & BENEFITS

- Excellent weather and UV resistance, no yellowing (it is fully aliphatic).
- Low viscosity
- Excellent mechanical properties, high elasticity, tensile and tear strength.
- Highly hydrophobic.
- Excellent chemical and hydrolysis 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, corroded metal, and galvanized steel. For information about other substrates, please contact our tech department.

Concrete substrate conditions (standard):

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

Primer selection for special conditions and substrates:

Please refer to the **Primer Selection Table**.

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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. Add SOLVENT-01 10% for application by spraying.

Application:

By brush, roller or airless spraying. If applied in sequel layers, do not exceed 48 hours between coats.

CONSUMPTION

Minimum 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 and 15 kg drums.

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.

SAFETY INFORMATION

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

In liquid form:

PROPERTY	UNITS	METHOD	SPECIFICATION
Viscosity (BROOKFIELD)	cP	ASTM D4287, @ 25 °C	1,000-3,000
Specific weight	gr/cm ³	ASTM D1475 / DIN 53217 / ISO 2811, @ 20 °C	1.3-1.4
Tack free time, @ 77 °F (25 °C) & 55% RH	hours	-	6-12
Recoat time	hours	-	24

Cured membrane:

PROPERTY	UNITS	METHOD	SPECIFICATION
Service temperature	°C	-	-40 to 90
Max. temperature short time (shock)	°C	-	200
Hardness	Shore A	ASTM D2240/DIN 53505 / ISO R868	80
Tensile strength at break @ 23°C	Kg/cm ² (N/mm ²)	ASTM D412/ EN-ISO-527-3	90 (9)
Percent elongation @ 23 °C	%	ASTM D412/ EN-ISO-527-3	> 600
Thermal resistance (100 days @ 80 °C)	-	EOTA TR011	passed
QUV Accelerated Weathering Test	-	ASTM G53	passed (2000 hours)

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ALCHIMICA S.A.
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2928-CPR-111 & 55
EN 1504-2: 2004
2928
HYPERDESMO [®] ADY-610
Surface Protection Products – Coating
www.alchimica.com

Essential characteristics	Performance	Harmonized technical specification
Permeability to CO ₂	$S_D > 50$ m	EN 1504-2:2004
Permeability to water vapor	$S_D < 5$ 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	
Reaction to fire	Euroclass E	EN 13501-1
External fire performance	Broof (t1 - t4)	EN 13501-5

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