

HYPERDESMO®-ADY 610

Product Data Sheet

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 white it will have excellent solar reflectance for many years.

 **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.

 **Compliance**

HYPERSEAL®-ADY 610 is **CE certified** as part of the **HYPERDESMO®** System, offering increased UV resistance and colour protection.

 **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.

 **Limitations**

- Not recommended for unsound substrates.
- Waterproofing of swimming pool surfaces in contact with chemically treated water.

 **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 technical service department.
- ✓ **Standard concrete substrate conditions:**
 - Hardness: $R_{28} = 15$ mpa
 - Humidity: $W < 10\%$
 - Temperature: $5-35^{\circ}\text{C}$
 - 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.

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.

Consumption

Minimum total 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.

Technical Specifications

In Liquid Form (Before application):

Property	Units	Method	Specification
Viscosity (Brookfield)	cP	ASTM D2196-86, @ 25°C	4000-6000
Specific weight	gr/cm ³	ASTM D1475 / DIN 53217 / ISO 2811@ 20 °C	1.3-1.4
Tack free time, @ 25 °C & 55% RH	hours	-	6-12
Recoat time	hours	-	24

In Cured Form (After application):

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	N/mm ²	ASTM D412/ EN-ISO-527-3	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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For more information on Hyperdesmo, Aquasmart & Hyperseal range of products and application methods

Please contact Alchimica Technical Service at info@alchimica.co.in

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