HYPERDESMO®-ADY 810

One component, UV resistant, High Traffic/Vehicular Traffic Waterproofing Coating

DESCRIPTION

HYPERDESMO®-ADY 810 is a fully aliphatic, one component, polyurethane liquid membrane designed for use as a bubble-free single layer top coat for **HYPERDESMO®** systems and suitable for use as a top coat for exposed car parking deck coating systems with outstanding abrasion and scratch resistance.

The system Build up is

1. Primer (please contact technical department for primer selection)
2. Main waterproofing coating: **HYPERDESMO® CLASSIC**
3. Top coat : **HYPERDESMO® ADY 810**

Alternatively, it may also be used in a single layer application acting simultaneously as main membrane and top coat.

HYPERDESMO® ADY 810 is moisture curing, but due to its curing mechanism will provide a bubble and defect free membrane. It has excellent adhesion to **HYPERDESMO® CLASSIC**, outstanding abrasion and scratch resistance, chemical and hydrolysis resistance. The UV resistance is excellent and the color stability is secure whatever the color.

HYPERDESMO®-ADY 810 is self-leveling, 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 or in two coats with the incorporation of silica sand.

Consumption: **0,5-2 Kg/m2** depending on type of application. **1.5-2 Kg/m2** in two coats for car parking systems.

COMPLIANCE - CERTIFICATION

HYPERDESMO®-ADY 810 is **CE** certified as part of the **HYPERDESMO®** System, offering increased UV resistance, colour protection and traffic resistance. **HYPERDESMO®-ADY 810** is **CE** certified: **Test Report 2928-CPR-111 & 55/23-10-2025** according to the European Standard **EN 1504-2.**

RECOMMENDED FOR

- Top-coating **HYPERDESMO®** on traffic deck systems.
- Top-coating **HYPERDESMO®** on roofs.
- Top-coating **HYPERDESMO®-POLYUREA-2K-HC**.
- Top-coating on light roofing from metal or fibrous cement.
- Main membrane and topcoat application in one single layer (on concrete/steel reinforced concrete or otherwise, on other substrates suitable for **HYPERDESMO®**application).

LIMITATIONS

Not recommended for:

- Unsound substrates

FEATURES & BENEFITS

- Excellent abrasion, impact and UV resistance,
- Excellent mechanical properties, high elasticity, tensile and tear strength.
- Excellent chemical and hydrolysis resistance.

APPLICATION PROCEDURE

Standard concrete substrate conditions

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

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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, etc. must be removed. Further primer information available on request.
The application surface must be **dry**.
If used as a top coat, it must be applied within 24-72 hours of **HYPERDESMO®** application, depending on weather conditions.

Priming:
If used as main membrane, apply the required primer as per the ***Primer Selection Table***.

Mixing:
Use a low speed (300 rpm) mixer.

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

CONSUMPTION

Minimum consumption: **±0.5 kg/m²** and **1.5 Kg/m2** in two coats for car parking systems.

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, 15 kg, 25 kg pails.

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.

TECHNICAL SPECIFICATIONS

In liquid form:

PROPERTY	UNITS	METHOD	SPECIFICATION
Viscosity (BROOKFIELD)	cP	ASTM D4287, @ 25 °C	1,500-3,500
Specific weight	gr/cm³	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	-	24-48

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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	95-100
Tensile strength at break @ 23°C	Kg/cm2 (N/mm^2)	ASTM D412/ EN-ISO-527-3	>200 (>20)
Percent elongation @ 23 °C	%	ASTM D412/ EN-ISO-527-3	> 300
Abrasion Resistance	Mg loss	ASTM D6040, H-22 WHEELS, 1000 REVS, 1000 GR	<125
Thermal resistance (100 days @ 80 °C)	-	EOTA TR011	passed
QUV Accelerated Weathering Test	-	ASTM G53	passed (2000 hours)

CE

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2928-CPR-111 & 55

EN 1504-2: 2004
2928
HYPERDESMO® ADY-810
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	W<0.1 $kg/m^{2}\cdot h^{0.5}$	
Bond strength by pull-off	≥2.0 N/mm^2 with trafficking	
Reaction to fire	Class F	EN 13501-1

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