

HYPERDESMO®-ADY-E

Product Data Sheet

One-component, Semi-glossy, Aliphatic, Elastic Polyurethane Top Coat

Description

HYPERDESMO®-ADY-E is a one-component polyurethane coating, which contains specialty inorganic fillers that upon combination with small amount (5-10%) of **ALCHIMICA** pigment paste offer superior hiding power. This allows minimal consumption of material and omitting of a second coat (in cases of simple UV protection, not traffic resistance) resulting in overall cost reduction. The material is based on the very successful product **HYPERDESMO®-ADY-E (transparent)** so it has similar elastomeric properties with **HYPERDESMO®** products. It is based on pure elastomeric hydrophobic polyurethane resin, which results in excellent mechanical, chemical, thermal, UV and natural element resistance properties.

Compliance

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

Recommended For

- Top-coating **HYPERDESMO®** range of products.
- Top-coating flooring applications

Features & Benefits

- Excellent hiding Power even in one coat
- Traffic Resistant and highly Hydrophobic
- Strong and uniform adhesion on almost any type of surface,
- Highly durable when exposed to the natural elements, maintains its elasticity even down to -40°C,
- Excellent heat and UV resistance, it will not yellow, peel or soften up to 90°C,
- Outstanding resistance to chemicals and mechanical stresses (high tensile strength and abrasion resistance),
- Compatible pigment pastes available in many colours.

Limitations


- Unsound substrates,
- Application in thick coats.

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, etc. must be removed. Further primer information available on request. The application surface must be **dry**.
- ✓ When used as a topcoat, for colour protection of **HYPERDESMO®** products, it is either **pre-pigmented** from the factory in **white/grey** colour or it comes in **NEUTRAL version** that must be pigmented with **ALCHIMICA®** pigment pastes only (10% max). It must be applied within 24-72 hours of **HYPERDESMO®** depending on weather conditions.
- ✓ **Preparation:** When stirring (or pigmenting) take care not to introduce air in the fluid, which may result in bubbling on the cured membrane. Stirring can either be done manually or with a low speed (300 rpm) mixer. A small sediment may form in the pail after prolonged storage. This can be homogenized in the product with mechanical mixing.

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-  **Application:** Mix with **ALCHIMICA** pigment paste 5-10% or as required. **ALCHIMICA** guarantees product performance only when used with **ALCHIMICA** pigment pastes. Avoid outsourcing of pigment pastes as may contain chemicals that will inhibit material curing. Apply with brush, roller or airless spraying in one or two coats. Do not exceed 48 hours between coats.

 **Cleaning**

Clean tools and equipment first with paper towels and then using SOLVENT-01. Rollers will not be re-usable.

 **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.

 **Consumption**

0.2-0.6 kg/m² in one or two coats, depending on traffic conditions.

 **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.

 **Packaging**

5 Kg, 20 Kg

 **Technical Specifications**

In liquid form (before application):

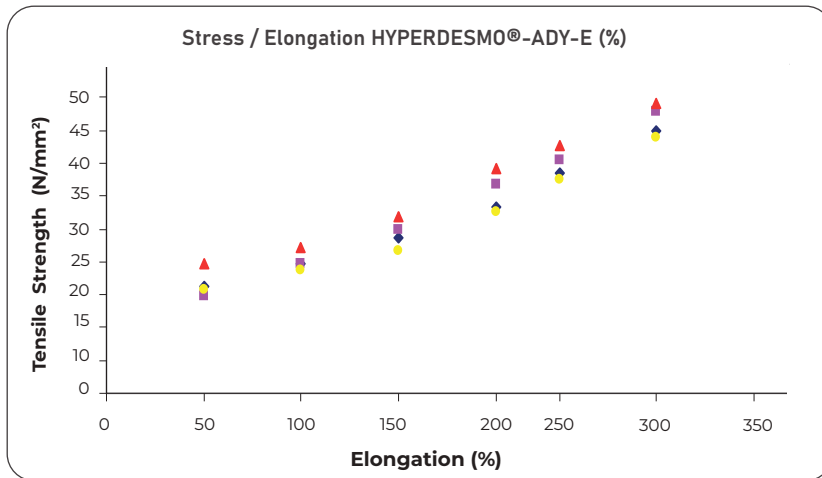
Property	Units	Method	Specification
Viscosity (Brookfield)	cP	ASTM D2196-86, @ 25 °C	400-600
Specific weight	gr/cm ³	ASTM D1475 / DIN 53217 / ISO 2811, @ 20 °C	1.2
Recoat time	Hours	-	24
Tack free time, @ 25°C & 55% RH	Hours	-	6-8

The cured membrane:

Property	Units	Method	Specification
Service temperature	°C	-	-40 to 90
Max. temperature short time (shock)	°C	-	200
Hardness	Shore D	ASTM D2240 / DIN 53505 / ISO R868	40
Tensile strength at break @ 23 °C	N/mm ²	ASTM D412 / EN-ISO-527-3	40
Percent elongation @ 23 °C	%	ASTM D412 / EN-ISO-527-3	> 300
Water vapor transmission	gr/m ² .hr	ASTM E96 (Water Method)	0.8
Thermal resistance (100 days@ 80 °C)	-	EOTA TR011	Passed
Hydrolysis (Potassium Hydroxide 8%, 10 days @ 50°C)	-	-	no significant elastomeric property change
Hydrolysis (Sodium Hypochlorite 5%, 10 days)	-	-	no significant elastomeric property change
Water absorption	-	-	< 1.4%
QUV Accelerated Weathering Test	-	ASTM G53	Passed (2000 hours)

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Elongation Chart: Chemical & Hydrolytic Resistance



- HYPERDESMO®-ADY-E, fully cured
- Hydrolysis (HCl, PH=2, 2 weeks, RT)
- Hydrolysis (KOH, 8%, 15 days @ 50°C)
- QUV (1000 hrs)

For more information on Hyperdesmo, Hyperseal & Aquasmart range of products and application methods
Please contact Alchimica Technical Service at info@globalbusinessbd.com

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CE 25 YEARS EXPECTED WORKING LIFE

