

## HYPERDESMO®-300

## Product Data Sheet

### Heavy Duty, Single-Component, Highly Chemical Resistant Polyurethane / Polyurea Liquid Membrane For Demanding Waterproofing Applications.

#### Description

**HYPERDESMO®-300** is a single component, moisture curing polyurethane/polyurea liquid applied membrane, with excellent chemical resistance and mechanical properties, very high abrasion resistance, specially designed for difficult and demanding waterproofing applications.

**HYPERDESMO®-300** displays crack bridging properties over a wide range of extremely high or low temperatures. The product has thixotropic rheology that allows easy application on sloped and vertical substrates without any sagging. The material contains very low amount of solvent. It is non-flammable and classified as “non-IMO” or ADR during transportation.

**HYPERDESMO®-300** is the only single component polyurethane/ polyurea, liquid/cold applied membrane that has been certified for bridge deck waterproofing according to **ETAG 033**.

**HYPERDESMO®-300** is also ideal for waterproofing of swimming pools (under tiles), chemical-treatment tanks and roofs with high traffic.

#### Compliance

ETAG 033 “LIQUID APPLIED BRIDGE DECK WATER PROOFING KITS”.

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#### Features & Benefits

- Excellent crack bridging.
- Low solvent, non-flammable.
- Excellent chemical resistance. Can withstand petrochemicals, chlorine and salts that commonly attack bridge decks, or might be present in swimming pools and water tanks.
- Thixotropic, can be applied on any complex structure, assuring complete seamless and homogenous covering of uneven concrete surfaces usually encountered on bridge decks or vertical surfaces met on swimming pools and tanks.
- Excellent mechanical properties, high elasticity, tensile and tear strength. Can withstand the stresses of heavy asphalt application machinery.
- Excellent thermal resistance, the product never turns soft. Service temperature >80°C, max shock temperature 220°C.
- Resistance in the cold: The film remains elastic even down to -40°C.
- Exceptional compatibility with asphalt overlays without needing an adhesion layer.
- Highly hydrophobic.
- Compatible with standard Primers and Topcoats of **ALCHIMICA™**.

#### Application Procedure

- ✓ **Mixing:** Use a low speed (300 rpm) mixer. Add SOLVENT-01 10% for application by spraying.
- ✓ **Application:** Available in roller-grade and spray-grade. Apply by brush, roller or airless spraying machine.

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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.

### 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

Consumption: **1.5-2.5 kg/m<sup>2</sup>**  
For Bridge Deck waterproofing: **+/-2.5 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

- 25 kg drums.

### Technical Specifications

Property	Units	Method	Specification
Viscosity (Brookfield)	cP	ASTM D2196-86, @ 25°C	2,000-5,000
Density @ 20°C	gr/cm <sup>3</sup>	ASTM D1475 / DIN 53217 / ISO 2811	1.40-1.50
Service temperature	°C	-	-40 to >80
Max. temperature short time (shock)	°C	-	220
Abrasion Resistance (TABER)	mg loss	ASTM D4060-14 (CS17/1000/1000)	30
Hardness	Shore A	ASTM D2240	80
Tensile strength	N/mm <sup>2</sup>	ASTM D412	>7
Percent elongation	%	ASTM D412	>250
Thermal resistance (100 days @ 80°C)	-	EOTA TR011	Passed

For more information on Hyperdesmo , Aquasmart & Hyperseal range of products and application methods  
Please contact Alchimica Technical Service at [info@alchimica.co.in](mailto:info@alchimica.co.in)

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