



EU-Declaration of Performance

In accordance with Annex III of Regulation (EU) No.305/2011
(Construction Product Regulation)

No: CPR-16/0675-COAT_HYPERDESMO® -300

1. Unique identification code of the product-type:

CPR-16/0675-COAT_HYPERDESMO® -300

2. Intended use:

EAD 030675-00-0107

Liquid Applied Roof Bridge Deck Waterproofing kit (Polyurethane/Polyurea Based)

3. Manufacturer:

**ALCHIMICA SA
7, Lampsakou St.
115 28 Athens Greece**

4. Authorized representative:

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5. Systems of AVCP:

System 2+

6. (a) European Assessment Document: **EAD 030675-00-0107**

European Technical Assessment: **ETA-16/0675 28-07-2023**

Technical Assessment Body:

**Instituto De Ciencias De la Construcion Eduardo Torroja
C/Serrano Galvache n4
28033 Madrid**

Notified body:

1219

7. Declared performance

The system is used for the waterproofing of bridge decks and consists of the products:

Primer: GEODESMO-50
Main Coat: HYPERDESMO-300

Performance determined in **HYPERDESMO®-300 system**

Mechanical resistance and stability

Essential characteristic			Condition test	Values
Bond strength (kit to support)	Concrete		P1, S0, T5	2.8 MPa (A/B)
Capacity to bridge cracks (-20 °C)			P1, S1+S2, T2	Watertight
Resistance to chloride ion penetration			P1, S0, T5	Pass (0.007 %)
Resistance to dynamic actions	Resistance to perforation		P1, S0, T5	Pass (I4)
	Resistance to compaction of asphalt concrete		P1, S1.2, T5	Resistant and watertight
Resistance to heat impact (indirect method) (150 °C)	Bond strength (kit to support)	Concrete	P1, S1, T5	3.0 MPa (Y/Z)
	Tensile stress (initial- ageing) 10 mm/min 23 °C / 1 mm/m -10 °C		P1, S0/S1, T5 / T3	4,3 / 5,5 MPa 3,1 / 3,9 MPa
	Elongation (initial- ageing) 10 mm/min 23 °C / 1 mm/m -10 °C			148 / 292 % 12 / 12 %
	Capacity to bridge cracks		P1, S1+S2, T2	Watertight
Resistance to shear between the substrate and overlay	Asphalt concrete 160 °C (CBM)		P1, S1.2., T5	0.25 MPa
	Mastic Asphalt 220 °C (MA)		P1, S1.1, T5	0.35 MPa
Water-tightness (23 °C)			P1, S0, T5	Watertight
Resistance to high and low service temperatures	Low temperature		P1, S1+S2, T2	Watertight
	Bond strength to the support at +40 °C, -10 °C or -20 °C			NPA
	Resistance to shear to support (2.2.6) at +40 °C and/or -10 °C			NPA
Capacity to penetrate pores in the support				NPA
Resistance to flow (associated with the application to non-horizontal surfaces)			P1, S0, T5	0 %
Dry film thickness			P1, S0, T5	2.0 mm
Resistance to the effects of climatic conditions on application	Bond strength to the support 5 °C (concrete /steel)		P1, S0, T5	3.0 MPa (A/B)
	Bond strength to the support 40 °C (concrete /steel)			3.0 MPa (Y/Z)
Resistance to the effects of quality of the support (SC)	Moisture Content (MC)			NPA
	Day Joints (OA) (24h/ 48h)		P4, S0, T5	3.1 / 3.2 MPa (A/B)/(Y/Z)
	Section Joints (up to six months) (OA) (7d)		P4, S0, T5	1.7 MPa (A/B)

Resistance to contact with water (Wa)	Variation in mass (edges not sealed)	P1, S5.1, T5	0.20 %
	Micro hardness Initial / ageing (variation)		80° / 65° (19 %)
Resistance to alkali solution contact (Al)	Variation in mass (edges not sealed)	P1, S5.2, T5	0.30 %
	Micro hardness Initial/ageing (variation)		83° / 85° (3 %)
Resistance to oil, petrol or diesel contact (28 days)	Variation in mass (edges not sealed)	P1, S5, T5	1 %
	Micro hardness Initial/ageing / (variation)		77° (initial) / 82°-75°-75°
Resistance to bitumen contact (Bi)	Micro hardness Initial/ageing	P1, S5.3, T5	77° / 78° (1.3 %)
Resistance to heat ageing (HA)	Capacity to bridge cracks	P1, S1+S2, T2	Watertight
	Tensile stress (initial- ageing) 10 mm/min 23 °C / 1 mm/m -10 °C	P1, S0/S2, T5 / T3	4,3 / 4,9 MPa
	Elongation (initial- ageing) 10 mm/min 23 °C / 1 mm/m -10 °C		3,1 / 3,9 MPa
	Bond strength to the support (concrete)	P1, S2, T5	148 / 178 % 12 / 12 % 3.4 MPa (Y/Z)

Essential characteristic	Performance
Content, emission and/or release of dangerous substances	NPA

Safety and accessibility in use

Essential characteristic		Condition test	Performance
Bond strength (kit to overlay)	Mastic Asphalt (220 °C)	P1, S1.1, T5	1.2 MPa (-/Y)
	Asphalt concrete (160 °C)	P3, S1.2, T5	1.2 MPa (-/Y)
Slipperiness			NPA
Resistance to Abrasion / Wear			NPA

Durability due to climatic (BWR 1 and 4 (high and low temperatures))

Essential characteristic	Condition test	Performance
Bond strength to support (concrete)	P1, S3, T5	2.0 MPa (A/B)
Resistance to shear to support / overlay MA	P1, S3., S1.1, T5	0.3 MPa

8. Appropriate Technical Documentation and/or Specific Technical Documentation:

The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Krimizis Christos
Athens 20/03/2026