

## Declaration Of Performance

No. 14.026-17-01D070722-05

1. Unique identification code of the product-type:

**PENECOAT ELASTIC**

2. Intended use/es:

**Surface protection product for concrete – coating**  
**Principles 1 Protection against Ingress – method 1.3**  
**Principles 2 Moisture Control – method 2.2**  
**Principles 8 Increasing Resistivity – method 8.2**  
**Liquid-applied roof waterproofing using kits based on polyurethane**

3. Manufacturer:

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4. Authorized Representative:

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5. System / AVCP:

**System 3 (EAD 030350-00-0402) / System 4 (EN 1504-2)**

- 6a. Harmonised Standard:

**EN 1504-2**

- 6b. European Assessment Document: **EAD 030350-00-0402**

European Technical Assessment: **ETA 20/0012 of 16 July 2021 & ETA 22/0357 of 19 May 2022**

Technical Assessment Body: **Deutsches Institut für Bautechnik (DIBt)**

Notified body: **Not Applicable**

7. Declared performances:

Performance according to European Assessment Document EAD 030350-00-0402 and European Technical Assessment ETA 20/0012 of 16 July 2021 (The product is used in surface protection system consisting of components PENEPOX W, PENEPRIMER PU, PENECOAT ELASTIC and FABRIC):

Essential characteristics		Performance	
Minimum layer thickness		1.6 mm	2.9 mm
Minimum quantity consumed:		2.4 kg/m <sup>2</sup>	4.1 kg/m <sup>2</sup>
Roof slopes		S1 to S4 (< 5° to > 30°)	
Performance of the product		Description / Class / Level	
External fire performance EN 13501-5		B <sub>ROOF</sub> (t1)	
Reaction to fire EN 13501-1		Class E	
Statement on dangerous substances		The kit does not contain dangerous substances	
Water vapour diffusion resistance factor (μ)		μ~1830	
Watertightness		Watertight	
Resistance to wind loads		≥ 50 kPa	
Resistance to mechanical damage (perforation) (compressible and non-compressible substrates)		P1 to P3 (from low to normal)	P1 to P4 (from low to high)
Resistance to fatigue movement		W2	W3
Resistance to the effects of	low surface temperature	TL3 (-20 °C)	TL4 (-30 °C)
	high surface temperature	TH4 (90 °C)	
Working life according to the resistance to ageing media (heat and water)		W2 (10 years)	W3 (25 years)

Essential characteristics			Performance	
UV resistance in presence of moisture (climatic zones)			M and S (moderate and severe climatic)	
Resistance to plant roots			No performance assessed	
Effects of variations in kit components and site practices	at 8 °C	Maximum tensile strength	9.7 MPa	
		Elongation	22.7	
		Dynamic indentation	P3	P4
	at 40 °C	Maximum tensile strength	10.4 MPa	
		Elongation	29.9%	
		Dynamic indentation	P3	P4
Effects of day joints			≥ 300 kPa	
Resistance to slipperiness			No performance assessed	

Performance according to European Assessment Document EAD 030350-00-0402 and European Technical Assessment ETA 22/0357, 19 May 2022:

Components		Trade name	Consume
Primer over concrete metal and PU		PENEPOX W : epoxy water based	≥ 0.15 kg/m <sup>2</sup>
System 1	Waterproofing membrane	PENECOAT ELASTIC + 3 % (weight) P-BOOSTER (+ Optional: PENECOAT PU-L )	≥ 2.3 kg/m <sup>2</sup>
	Internal mesh	FABRIC 60P	-----
System 2	Waterproofing membrane	PENECOAT ELASTIC + 3 % (weight) P-BOOSTER	≥ 1.8 kg/m <sup>2</sup>
	Finish layer: UV Protection	PENECOAT PU-L	≥ 0.15 kg/m <sup>2</sup>
Characteristics of the System "PENECOAT ELASTIC SYSTEM "			
Minimum thickness		Without internal mesh 1,0 mm	
		With internal mesh 1,2 mm	
Water vapour diffusion resistant factor		~1620	
Resistance to wind loads		>50 kPa	
Resistance to plant roots		NPA	
Statement on dangerous substances		NPA	
Resistance to slipperiness		NPA	
Essential characteristics		Performance	
External fire performance		System 1 without PENECOAT PU-L: BROOF (t4) for pitches ≤ 10° and non-combustibles support, for other types of supports and pitches: NPA System 2 with PENECOAT PU-L: NPA	
Fire reaction		NPA	
Expected working life		W3 (25 years)	
Climatic zone of use		S (Severe)	
User loads		Support; Concrete / steel: P3: TH2 - TH1 P2: TH4 - TH3	Support; PU: Without mesh P1: TH4 - TH1 With mesh: P2: TH4 - TH1
Roofs slopes		S1 - S4	
Minimum surface temperatures		TL4 (-30 °C)	
Maximum surface temperatures		TH4 - TH1	



Performance according to Harmonised Standard EN 1504-2

Essential characteristics	Performance	European Norm
Linear shrinkage	NPD	EN 1504-2:2004
Coefficient of thermal expansion	NPD	
Adhesion by cross-cut test	NPD	
Permeability to CO <sub>2</sub>	S <sub>D</sub> >50m	
Water vapour permeability	Class I: S <sub>D</sub> <5m	
Capillary absorption and permeability to water	$\omega < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$	
Thermal compatibility	NPD	
Crack bridging ability	NPD	
Adhesion strength by pull-off test	$\geq 1,5 (1,0)^1 \text{ N/mm}^2$	
Reaction to fire	Class F	
Slip / skid resistance	NPD	
Behavior after artificial weathering	NPD	
Antistatic behavior	NPD	
Adhesion on wet concrete	NPD	
Dangerous substances	According 5.3	

Note: <sup>1)</sup> The value in the bracket is the lowest accepted value of any reading

8. Appropriate Technical Documentation and/or Specific Technical Documentation: **The technical requirements and the performances of the products are documented at the Technical File of the products and at the Technical Brochures of the Company.**

The performance of the product identified above is in conformity with the set of declared performance/s. 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:



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Technical Support – Head

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