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Authorised and notified according to Article 29 of the Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011

MEMBER OF EOTA

European Technical Assessment ETA-23/1020 of 2024/01/30

I General Part

Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011: ETA-Danmark A/S

Trade name of the construction product:	Flexitec Platinum
Product family to which the above construction product belongs:	Roof waterproofing
Manufacturer:	Res-Tec Ltd Unit 25 Castle Park Industrial Estate Flint Flintshire CH6 5XA UK United Kingdom
Manufacturing plant:	Res-Tec Ltd Unit 25 Castle Park Industrial Estate Flint Flintshire CH6 5XA UK United Kingdom
This European Technical Assessment contains:	7 pages including 1 annex which form an integral part of the document
This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of:	European Assessment document (EAD) no. European Assessment Document EAD 030350-00-0402 for Liquid applied roof waterproofing kits
This version replaces:	

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1 Technical description of the product

Flexitec Platinum is a liquid-applied, glass-reinforced, flexible modified polyester system, available in unpigmented or pre-pigmented versions.

The kit consists of the following components:

- Flexitec Platinum Resin — a pigmented, flexible modified polyester resin
- Flexitec Powder Hardener — a 50% dibenzoyl powder
- Chopped strand glassfibre mat — a 225 g/m^2 glass reinforcement
- Flexitec Primer — a primer for preparing bituminous, wood, concrete, and other substrates, according to the ETA holders installation instructions
- Restec Twin Pack Metal Epoxy Primer — a two-part primer for preparing metal substrates and other selected substrates according to the ETA holders installations instructions
- Restec Sealer Coat – sealer coat for pedestrian access specification
- Restec Sealer Coat Pigment – for use with Restec Sealer Coat unpigmentes
- Anti-slip Additive — an optional surface finish to provide an anti-slip surface if required
- Quartz sand (0.7 – 1.2mm) – an alternative grit for walkways and balconies

Ancillaries inside the scope:

- Flexitec Accelerator — an additive for the resin to allow application at lower temperatures
- Flexitec Summer Inhibitor – an additive to enable longer pot-life and working time in high tempratures
- Flexitec Primer Accelerator – an additive to allow application at lower temperatures
- Taping Mat — a reinforcing tape for use at points of weakness such as detailing, protrusions and over cracks
- Mordant solution — a pre-treatment for new galvanized steel or zinc substrates
- Restrims — a range of factory-manufactured GRP trims, including upstand fixing trim, drip trim, fillet trim and flat trim (preformed trims renamed)

The application rates for primers/treatments are given in the following table.

Primer/treatment coverage rates

Primer/treatment	Substrate	Coverage rate (m^2/litre)
Mordant T Wash	New galvanized steel and zinc	15
RestecTwin Pack Epoxy Metal Primer (1)	Metal substrates	5
Flexitec Primer(1)	Substrates other than metal	4-6

(1) Coverage rate is dependent on the condition of the substrate surface.

The kit is used to produce a two-coat application. The application rate, finished thickness and reinforcement are given in the following table.

Kit build-up and thickness (smooth concrete substrate(1))

Component	Kit build-up
Primer (m^2/litre)	4-6
System	
First coat (litre/m^2)	0,85-1.40(1)
Reinforcement	Chopped strand fibre mat
Second coat (litre/m^2)	0.5
Dry film thickness (mm)	1,5 mm – 1,75 mm

(1) The coverage rate depends on the substrate and the rates for different substrates are given in the manufacturers installation instructions.

The amount of catalyst added is dependent on the ambient substrate surface/air temperature. The percentage catalyst addition is given in the following table.

Catalyst proportion against temperature

Temperature (°C)	Catalyst addition for Restec Powder Hardener (%) Catalyst addition (%) level scoops per litre of primer
5-10	4
11-17	3
18-30	2

Air Temperature range (°C)	1 to 4°C	5 to 10°C	11 to 17°C	18 to 30°C
Flexitec Accelerator	Must be used		Not required	
Resin volume in litres	Number of catalyst level scoops(1)			
1	4	4	3	2
2	8	8	6	4
3	12	12	9	6
4	16	16	12	8
5	20	20	15	10
6	24	24	18	12
7	28	28	21	14

(1) Scoop provided with the catalyst

2 Specification of the intended use in accordance with the applicable European Assessment Document (hereinafter) EAD

Flexitec Platinum is for use as a liquid-applied roof waterproofing system on new or existing roofs with limited or pedestrian access (not for the exposed roof use) in the following specifications:

- exposed warm and cold flat and pitched roofs
- protected warm and cold flat and zero fall roofs (ie covered by pavers or other suitable protection
- green (extensive) flat, zero fall and pitched roofs
- inverted flat and zero fall roofs.

The provisions made in this European Technical Assessment are based on an assumed working life for the roof of 25 years. The indications given in the working life cannot be interpreted as a guarantee given by the producer or the Technical Assessment Body, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

3 Performance of the product and references to the methods used for its assessment

3.1 Mechanical resistance and stability (BWR 1)

Not relevant.

3.2 Safety in case of fire (BWR 2)

Characteristic	Classification
External fire performance	See Annex A
Reaction to fire	No performance assessed

3.3 Health, hygiene and the environment (BWR 3)

Characteristic	Category
Content, emission and/or release of dangerous substances	No performance assessed
Resistance to water vapour	See annex A
Watertightness	Watertight
Resistance to mechanical damage (perforation)	
Resistance to dynamic indentation	Steel 23 °C = I_4
	Steel -20 °C = I_4
	PIR insulation 23 °C = I_2
Resistance to static indentation	Steel 23 °C = L_4
	Steel 90 °C = L_4
	Carrier membrane on PIR insulation 23 °C = L_2
Resistance to fatigue movements	See Annex A
Resistance to the effects of low and high surface temperatures	
Effect of low surface temperatures	I_4 - See Annex A
Extreme low temperatures	No performance assessed
Effects of high surface temperature	L_4 - See Annex A
Resistance to ageing media	
Resistance to heat ageing	I_4
	No change in tensile strength
	No change in elongation
UV radiation in the presence of water	I_4 at 1200 MJ/m^2
Resistance to water ageing	I_4
Resistance to plant roots	No performance assessed
Effects of variations in kit components and site practices	See Annex A
Effects of day joints	See Annex A

3.4 Safety in use (BWR4)

Characteristic	Category
Resistance to wind loads	See Annex A
Slipperiness	No performance assessed

4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

According to the Decision 98/599/EC and amended by Decision 2001/596/EC of the European Commission, the system of assessment and verification of constancy of performance (see Annex V to Regulation (EU) No 305/2011) given in the following table applies.

Product	Intended use	Level or class	System
Liquid applied roof waterproofing kits	For all roof waterproofing uses	–	3

5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

Technical details necessary for the implementation of the Assessment and Verification of Constancy of Performance (AVCP) are laid down in the control document deposited at ETA-Danmark A/S prior to CE marking.

Issued in Copenhagen on 2024-01-30 by

Thomas Bruun

Managing Director, ETA-Danmark A/S

ANNEX A CATEGORISATION OF LEVELS OF LEVELS OF PERFORMANCE OF Flexitec Platinum

This annex applies to the Flexitec Platinum roof waterproofing kit described in the main body of the European Technical Assessment.

The substrate applicable to this kit is defined in the main body of the European Technical Assessment.
The kit has the following characteristics:

- water vapour diffusion (equivalent air layer thickness) — S_d — 57 m
- resistance to wind loads — >50 kPa
- assembled kit thickness — 1,5 mm to 1,75 mm

The categorisation of levels of performance in accordance with EAD 030350-00-0402 are:

- External fire performance — $B_{ROOF}(t4)$[(1)]
- Reaction to fire — No Performance Assessed
- Categorisation by working life — W3
- Categorisation by climatic zones — M
- Categorisation by imposed loads — P4
- Categorisation by roof slope — S1 to S4
- Categorisation by surface temperature
  lowest — TL3
  highest — TH4

- Statement on dangerous substances — No Performance Assessed
- Root resistance — No Performance Assessed
- Slipperiness — No Performance Assessed.

(1) Field of application
Range of pitches: ≤ 10°
Range of supporting decks: Non-combustible (A1) substrates with thickness 9 mm or more and density 1000 kg/m^3 or more, and on combustible substrates made from OSB boards with thickness of 18 mm or more and density 644 kg/m^3 or more.