



ETA-Danmark A/S
Göteborg Plads 1
DK-2150 Nordhavn
Tel. +45 72 24 59 00
Fax +45 72 24 59 04
Internet www.etadanmark.dk

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-20/0914 of 2020/11/25

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:

Protec

Product family to which the above construction product belongs:

Roof waterproofing

Manufacturer:

Polyroof Products
Limited Furness House
Castle Park Industrial
Estate Flint
Flintshire CH6 5XA United Kingdom

Manufacturing plant:

Polyroof Products
Limited Furness House
Castle Park Industrial
Estate Flint
Flintshire CH6 5XA 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:

Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and should be identified as such.

Communication of this European Technical Assessment, including transmission by electronic means, shall be in full [except the confidential Annex(es) referred to above]. However, partial reproduction may be made with the written consent of the issuing Technical Assessment Body. Any partial reproduction has to be identified as such.

1 Technical description of the product

The kit consists of the following components:

- Protec — a flexible, modified polyester resin
- Polyroof Pigment — a pigment dispersed in polyester resin, available in two standard colours (chromite grey and light grey); other non-standard colours are available on request
- Polyroof Powder Catalyst — 50% dibenzoyl peroxide powder
- Polymat — a 450 g·m⁻² glassfibre mat for reinforcing the system
- Polygrit — an optional surface finish to provide an anti-slip surface if required
- Polyroof Quartz Sand — an alternative to Polygrit
- Uni-Primer Std — a standard primer for preparing concrete substrates
- Uni-Primer DP — an alternative primer for preparing concrete substrates
- Metallic Primer — a primer for preparing metal upstands
- Mordant T Wash — a pre-treatment for galvanized steel and zinc substrates (including upstands)
- Protec Taping Mat — a 450 g·m⁻² glassfibre reinforcing tape (as per Polymat) for use at points of weakness such as detailing, protrusions and over cracks
- Bond Breaker Tape — for use at expansion joints or construction joints to accommodate movement.

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

Primer/treatment coverage rates

Primer/treatment	Substrate	Coverage rate (m ² ·litre ⁻¹)
Mordant T Wash	New galvanized steel and zinc	15
Metallic Primer ⁽¹⁾	Metal substrates	8-12
Uni-Primer Std ⁽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 ⁻¹)	4-6
System	
First coat (litre·m ⁻²)	1.25-1.30
Reinforcement	Polymat
Second coat (litre·m ⁻²)	0.5
Dry film thickness (mm)	2.00-2.25

(1) When applying to very rough, uneven or heavily mineralised surfaces the coverage rate may be significantly reduced and this should be taken into account when estimating material usage.

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 Polyroof Uni-Primer Std (%)	Catalyst addition for Protec (%)
3-10	4-6	4
10-15	3-4	3
15-20	3-4	2-3
20-30	2	2
30-35	2	—

2 Specification of the intended use in accordance with the applicable EAD

For use as a liquid-applied roof waterproofing on flat and pitched roofs on concrete substrates.

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	See Annex A
Resistance to wind loads	See Annex A
Resistance to mechanical damage (perforation)	
Resistance to dynamic indentation	See Annex A
Resistance to static indentation	See Annex A
Resistance to fatigue movements	See Annex A
Resistance to the effects of low and high surface temperatures	
Effect of low surface temperatures	See Annex A
Extreme low temperatures	No performance assessed
Effects of high surface temperature	See Annex A
Resistance to ageing media	
Resistance to heat ageing	
UV radiation in the presence of water	See Annex A
Resistance to water ageing	See Annex A
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

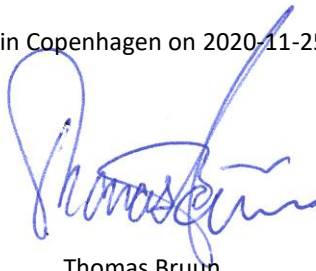
According to the Decision 98/599/EC and amended by Decision 2001/596/EC of the European Commission, the system of assessment and verification of constancy of performance (see Annex V to Regulation (EU) No 305/2011) given in the following table applies.

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 outlined 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 2020-11-25 by



Thomas Bruun

Managing Director, ETA-Danmark A/S

ANNEX A CATEGORISATION OF LEVELS OF PERFORMANCE OF PROTEC

This annex applies to the Protec 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 — 2.0 mm to 2.25 mm

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

- External fire performance — $B_{ROOF}(t_4)$
- 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.

Polyroof Products Limited

Furness House
Castle Park Industrial Estate
Flint
Flintshire CH6 5XA

Tel: 01352 735135 Fax: 01352 735182

e-mail: technical@polyroof.co.uk

website: www.polyroof.co.uk



Agrément Certificate

23/6749

Product Sheet 1 Issue 1

POLYROOF XTRAFLEX WATERPROOFING SYSTEM

XTRAFLEX

This Agrément Certificate Product Sheet⁽¹⁾ relates to XtraFlex, a liquid-applied, reinforced flexible modified polyester membrane for use in waterproofing gutters on flat or pitched roofs, weatherproofing penetrations through roofs and walls and roof junction details.

(1) Hereinafter referred to as 'Certificate'.

The assessment includes

Product factors:

- compliance with Building Regulations
- compliance with additional regulatory or non-regulatory information where applicable
- evaluation against technical specifications
- assessment criteria and technical investigations
- uses and design considerations

Process factors:

- compliance with Scheme requirements
- installation, delivery, handling and storage
- production and quality controls
- maintenance and repair

Ongoing contractual Scheme elements†:

- regular assessment of production
- formal 3-yearly review



KEY FACTORS ASSESSED

- Section 1. Mechanical resistance and stability
- Section 2. Safety in case of fire
- Section 3. Hygiene, health and the environment
- Section 4. Safety and accessibility in use
- Section 5. Protection against noise
- Section 6. Energy economy and heat retention
- Section 7. Sustainable use of natural resources
- Section 8. Durability

The BBA has awarded this Certificate to the company named above for the product described herein. This product has been assessed by the BBA as being fit for its intended use provided it is installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of issue: 15 March 2023

Hardy Giesler
Chief Executive Officer

This BBA Agrément Certificate is issued under the BBA's Inspection Body accreditation to ISO/IEC 17020. Sections marked with † are not issued under accreditation.

The BBA is a UKAS accredited Inspection Body (No. 4345), Certification Body (No. 0113) and Testing Laboratory (No. 3537).

Readers MUST check that this is the latest issue of this Agrément Certificate by either referring to the BBA website or contacting the BBA directly.

The Certificate should be read in full as it may be misleading to read clauses in isolation.

Any photographs are for illustrative purposes only, do not constitute advice and should not be relied upon.

British Board of Agrément

1st Floor Building 3
Croxley Park, Watford
Herts WD18 8YG

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tel: 01923 665300
clientservices@bbacerts.co.uk
www.bbacerts.co.uk

SUMMARY OF ASSESSMENT AND COMPLIANCE

This section provides a summary of the assessment conclusions; readers should refer to the later sections of this Certificate for information about the assessments carried out.

Compliance with Regulations

Having assessed the key factors, the opinion of the BBA is that XtraFlex, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements of the following Building Regulations:



The Building Regulations 2010 (England and Wales) (as amended)

Requirement:	B4(1)	External fire spread
Comment:		Areas of walls on which the product has been applied should be considered as unprotected and the system may be restricted under this Requirement in some circumstances. See section 2 of this Certificate.
Requirement:	B4(2)	External fire spread
Comment:		On suitable substructures, the use of the product may enable a roof to be unrestricted under this Requirement. See section 2 of this Certificate.
Requirement:	C2(b)	Resistance to moisture
Comment:		The product will enable a roof to satisfy this Requirement. See section 3 of this Certificate.
Regulation:	7(1)	Materials and workmanship
Comment:		The product is acceptable. See section 8 and the <i>Installation</i> part of this Certificate.



The Building (Scotland) Regulations 2004 (as amended)

Regulation:	8(1)(2)	Fitness and durability of materials and workmanship
Comment:		The use of this product satisfies the requirements of this Regulation. See sections 8 and 9 and the <i>Installation</i> part of this Certificate.
Regulation:	9	Building standards applicable to construction
Standard:	2.6	Spread to neighbouring buildings
Standard:	2.7	Spread on external walls
Comment:		The product is restricted under clauses 2.6.2 ⁽¹⁾⁽²⁾ , 2.6.5 ⁽¹⁾ and 2.7.1 ⁽¹⁾⁽²⁾ of these Standards in some circumstances. See section 2 of this Certificate.
Standard:	2.8	Spread from neighbouring buildings
Comment:		When applied to a suitable substructure, the product may enable a roof to be unrestricted under clause 2.8.1 ⁽¹⁾⁽²⁾ . See section 2 of this Certificate.
Standard:	3.10	Precipitation
Comment:		The product will contribute to a structure satisfying the requirements of this Standard with reference to clause 3.10.1 ⁽¹⁾⁽²⁾ . See section 3 of this Certificate.
Standard:	7.1(a)	Statement of sustainability
Comment:		The product can contribute to meeting the relevant requirements of Regulation 9, Standards 1 to 6 and therefore will contribute to a construction meeting a bronze level of sustainability as defined in this Standard.

Regulation:	Building standards applicable to conversions
Comment:	Comments in relation to <i>the</i> product under Regulation 9, Standards 1 to 6 also apply to this Regulation, with reference to clause 0.12.1 ⁽¹⁾⁽²⁾ and Schedule 6 ⁽¹⁾⁽²⁾ .
	(1) Technical Handbook (Domestic). (2) Technical Handbook (Non-Domestic).



The Building Regulations (Northern Ireland) 2012 (as amended)

Regulation:	23(1)(a)	Fitness of materials and workmanship
Comment:	(i)(ii)(iii) (iv)(b)(i)	The product is acceptable. See section 8 and the <i>Installation</i> part of this Certificate.
Regulation:	28(b)	Resistance to moisture and weather
Comment:		The use of the product will enable a roof to satisfy the requirements of this Regulation. See section 3 of this Certificate.
Regulation:	36(a)	External fire spread
Comment:		Areas of walls on which the product is applied should be considered as unprotected under this Regulation. See section 2 of this Certificate.
Regulation:	36(b)	External fire spread
Comment:		On a suitable substructure, the use of the product may enable a roof to be unrestricted under this Regulation. See section 2 of this Certificate.

NHBC Standards 2023

In the opinion of the BBA, XtraFlex, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements in relation to *NHBC Standards, Chapter 7.1 Flat roofs, terraces and balconies*.

In addition, in the opinion of the BBA, the products when installed and used in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements in relation to *NHBC Standards for Conversions and Renovations*, taking account of other relevant guidance within the chapter and the suitability of the substrate to receive the product.

The NHBC Standards do not cover the refurbishment of existing roofs.

Fulfilment of Requirements

The BBA has judged XtraFlex to be satisfactory for use as a waterproofing for gutters, detailing at penetrations and roof junction details as described in this Certificate.

ASSESSMENT

Product description and intended use

The Certificate holder provided the following description for the product under assessment. XtraFlex consists of:

- XtraFlex — a brush or roller applied, flexible, modified polyester resin
- Polyroof catalyst — 50% dibenzoyl peroxide powder
- Polymat — 450 g·m⁻² glass-fibre reinforcement.

Ancillary Items

The following ancillary items are essential to use with the product and have been assessed with the product:

- Polyroof Quick Dry Epoxy Primer — a two-part primer for preparing metal substrates
- Metal Detailing Primer — a moisture curing, low viscosity primer for use on metal details such as protrusions, stanchions, outlets and other small metallic details
- Uni-Primer DP — For preparing bituminous and cementitious substrates
- XtraFlex Accelerator — an additive to allow application at lower temperatures
- XtraFlex Summer Inhibitor — an additive to allow application in elevated temperatures
- Mordant T-Wash — a pre-treatment for new galvanized steel or zinc substrates
- Polyroof Butyl Lap Tape — for use at active cracks and joints
- Polyroof Butyl Bolt Tape — for use over bolt and fixing heads
- Acetone — for use in cleaning tools.

Applications

The product is intended for use in the following situations:

- waterproofing gutters on flat or pitched roofs
- weatherproofing penetrations and other details, for roofs and walls such as pipes, rooflights and sunpipes
- roof junction details.

The product must not be used in contact with hot pipes or flues.

The product has been assessed for use on the following substrates:

- concrete
- asphalt
- galvanized steel
- reinforced bitumen membranes (including sanded and mineral surfaced felts)
- Glass reinforced plastic (GRP)
- single-ply membranes⁽¹⁾
- previously coated surfaces⁽¹⁾
- small areas of metal incidental to the roof, eg pipe upstands.

(1) The advice of the Certificate holder should be sought on compatibility with the system.

Definitions for products and applications inspected

The following terms are defined for the purpose of this Certificate as:

- flat roof — a roof having a minimum finished fall of 1:80
- pitched roof — a roof having a fall in excess of 1:6.

Product assessment – key factors

The product was assessed for the following key factors, and the outcome of the assessments are shown below. Conclusions relating to the Building Regulations apply to the whole of the UK unless otherwise stated.

1 Mechanical resistance and stability

Not applicable.

2 Safety in case of fire

Data were assessed for the following characteristics.

2.1 External fire spread

2.1 When tested to CEN/TS 1187 : 2012, Test 4 and classified to BS EN 13501-5 : 2016, the build-up given in Table 1 of this Certificate, over a substrate of A1 classification to BS EN 13501-1: 2018, 9mm or more thickness and a density of 1000 kg·m⁻³ or more, achieved B_{ROOF}(t4) for slopes below 10°.

Table 1 Tested systems

Layer	System ⁽¹⁾
Substrate	9 mm thick calcium silicate board
Primer	0.2 mm thick coat of Uni-Primer DP
Base coat	1.3 mm thick coat of XtraFlex
Reinforcement	Polymat embedded in XtraFlex base coat
Top coat	0.5 mm thick coat of XtraFlex

(1) Fire test and classification reports, references 22010A and 22010B respectively, conducted by WFRGENT NV, Report available from the Certificate holder.

2.1.2 On the basis of data assessed, the system described in section 2.1.1 will be unrestricted by the documents supporting the national Building Regulations with respect to proximity to a boundary.

2.1.3 The designation and permissible areas of use of other specifications should be confirmed by reference to the requirements of the documents supporting the national Building Regulations.

2.2 Reaction to fire

2.2.1 The Certificate holder has not declared a reaction to fire classification to BS EN 13501-1 : 2018.

2.2.2 On the basis of data assessed, XtraFlex will be restricted in use under the documents supporting the national Building Regulations in some cases.

2.2.2 In England, the product, when used on walls or on roofs with pitches of greater than 70°, excluding upstands, should not be used less than 1 m from a boundary, on residential buildings more than 11 m in height or on other buildings more than 18 m in height. Restrictions apply on assembly and recreation buildings. These constructions should also be included in calculations of unprotected area.

2.2.3 In Wales, the products, when used on walls or on roofs with pitches greater than 70°, excluding upstands, should not be used less than 1 m from a boundary, or on other buildings more than 18 m in height. Restrictions apply on assembly and recreation buildings. These constructions should also be included in calculations of unprotected area.

2.2.4 In Scotland and Northern Ireland for systems incorporating the products used on walls or on roofs with pitches greater than 70°, excluding upstands, that do not achieve the minimum Class E reaction to fire classification to BS EN 13501-1: 2018, designers should seek guidance on the proposed use of the product/system from the relevant Building Control Body.

3 Hygiene, health and the environment

Data were assessed for the following characteristics.

3.1 Weathertightness

3.1.1 Results of weathertightness tests are given in Table 2.

Table 2 Results of weathertightness tests

Product assessed	Assessment method	Requirement	Result
XtraFlex on steel	Delamination strength to EAD 030350-00-0402 Annex 4 : A4.1 after 60 days water exposure at 60°C	≥ 50 kPa	Pass

3.1.2 The watertightness of the product was assessed using test data from a representative related product applied at the same application rate.

3.1.3 The performance of other substrates and primers for delamination strength were assessed using test data from a representative related product and confirmed as satisfying the requirement given in Table 2.

3.1.4 On the basis of data assessed, XtraFlex will adequately resist the passage of moisture to the inside of the building and so satisfy the requirements of the national Building Regulations.

3.1.5 The adhesion of XtraFlex to the substrates listed in the *Applications* section of this Certificate is sufficient to resist the effects of any wind suction, elevated temperature, thermal shock or structural movement likely to occur in practice and remain weathertight.

3.2 Resistance to mechanical damage

3.2.1 Results of resistance to mechanical damage tests are given in Table 3.

Table 3 Results of resistance to mechanical damage tests

Product assessed	Assessment method	Requirement	Result
XtraFlex on steel	Dynamic indentation to EAD 030350-00-0402 Annex 4 : A4.3	Value achieved	L4
XtraFlex on steel	Static indentation to EAD 030350-00-0402 Annex 4 : A4.4	Value achieved	L4
XtraFlex free film	Tensile strength to BS EN ISO 527-3 : 2018	Value achieved	21.2 MPa
XtraFlex free film	Elongation at break to BS EN ISO 527-3 : 2018	Value achieved	6.2%

3.2.2 The resistance to fatigue cycling of the product was assessed using test data from a representative related product applied at the same application rate and was satisfactory.

3.2.3 On the basis of data assessed, XtraFlex can accept, without damage, the foot traffic and light concentrated loads associated with installation and maintenance and the effects of minor movement likely to occur in practice while remaining weathertight.

4 Safety and accessibility in use

Not applicable.

5 Protection against noise

Not applicable.

6 Energy economy and heat retention

Not applicable.

7 Sustainable use of natural resources

Not applicable.

8 Durability

8.1 The potential mechanisms for degradation and the known performance characteristics of the materials in this product were assessed.

8.2 Specific test data were assessed and the results are given in Table 4.

<i>Table 4 Results of durability tests</i>			
Product assessed	Assessment method	Requirement	Result
XtraFlex free film	Tensile strength to BS EN ISO 527-3 : 2018 heat aged for 100 days at 70°C UV aged for 400 MJ·m ⁻²	No significant loss of properties following ageing.	Pass
			Pass
XtraFlex free film	Elongation at break to BS EN ISO 527-3 : 2018 heat aged for 100 days at 70°C UV aged for 400 MJ·m ⁻²	No significant loss of properties following ageing.	Pass
			Pass
XtraFlex on steel	Delamination strength to EAD 030350-00-0402 Annex 4 : A4.1 after 60 days water exposure at 60°C	50 kPa	Pass

8.3 Additional test data for a representative related product applied at the same application rate as XtraFlex was assessed in relation to durability of the product in relation to heat ageing, UV ageing and water exposure.

8.4 Service life

8.4.1 Under normal service conditions, the product will have a life of at least 25 years, provided it is designed, installed and maintained in accordance with this Certificate and the Certificate holder's instructions.

PROCESS ASSESSMENT

Information provided by the Certificate holder was assessed for the following factors:

9 Design, installation, workmanship and maintenance

9.1 Design

9.1.1 The design process was assessed by the BBA and the following requirements apply in order to satisfy the performance assessed in this Certificate.

9.1.2 Where appropriate, decks to which the system is to be applied must comply with the relevant requirements of BS 6229 : 2018, BS 8217 : 2005 and, where appropriate, *NHBC Standards 2023*, Chapter 7.1.

9.2 Installation

9.2.1 Installation instructions provided by the Certificate holder were assessed and judged to be appropriate and adequate.

9.2.2 Installation must be carried out in accordance with this Certificate and the Certificate holder's instructions. A summary of instructions and guidance are provided in Annex A.

9.2.3 Application of the product is carried out at a minimum substrate temperature and air temperature of 3°C stable (1°C with the use of accelerators), rising to a maximum air temperature of 30°C and substrate temperature of 40°C. The system must not be installed in rain, snow, fog or misty conditions, or when the relative humidity is above 95%.

9.2.4 New galvanized steel and zinc substrates must be treated with Mordant T-Wash at a coverage rate of 15 m² per litre. The wash is allowed to react, and the surface conversion is indicated by a black deposit. The surface residue is washed off with water and dried prior to the application of the primer.

9.2.5 Metal substrates must be primed using Polyroof Quick Dry Epoxy Primer at a coverage rate of 10 to 15 m²·ℓ⁻¹, rough surfaces will significantly reduce coverage rate. The substrate temperature must be greater or equal to 5°C and 3°C above the dew point. The primer must be left to dry for two to four hours.

9.2.6 Small metallic details must be primed either using Metal Detailing Primer at a coverage rate of 50 to 150 mℓ·m⁻² or with Polyroof Quick Dry Epoxy Primer as previously described. The substrate temperature must be greater or equal to 5°C and the maximum application temperature is 40°C. The primer must be left to dry for 15 to 30 minutes.

9.2.7 Bituminous and cementitious substrates are primed using catalysed Polyroof Uni-Primer DP at a coverage rate of 4 to 6 m²·ℓ⁻¹. Porous surfaces must be visually checked to ensure an adequate seal and any suspect areas re-primed as necessary. The primer is allowed to dry for at least one hour before overcoating. If the primed surface is left for longer than seven days before application of the system, it is necessary to solvent wipe the surface with acetone prior to the installation of the waterproofing. The catalyst proportion for Uni-Primer DP are given in Table 5 in respect of the surface/air temperature.

Table 5 Catalyst proportion for Uni-Primer DP

Temperature (°C)	Catalyst addition (%)
3 – 10	3 – 4
10 – 20	2 – 3
20 – 35	2

9.2.8 For other substrates the Certificate holder must be consulted on the suitability of the substrate and suitable primers to use on the substrate.

9.2.9 The XtraFlex resin component is mixed on site by adding the catalyst to the resin in the correct proportions. The catalyst is added in the proportions given in Table 6, depending on the surface/air temperature, and stirred in accordance with the mixing instructions.

Table 6 Catalyst proportion for XtraFlex

Temperature (°C)	Catalyst addition (%)
3 – 10	4
10 – 15	3
15 – 20	2 – 3
20 – 30	2

9.2.10 The application of the product is in two coats. The first coat of resin is applied at an application rate of between 1.3 to 1.5 ℓ·m⁻² and the Polymat rolled out and laid with 50 mm side and end laps. Extra resin is immediately applied to achieve a closed, pinhole-free surface.

9.2.11 The second coat of resin can be applied as soon as it is practical to do so. However, the maximum period between coats is seven days, after which it is necessary to clean the surface with acetone allowing a further seven days' application time. The coverage rate for the second coat is 0.5 ℓ·m⁻².

9.2.12 The NHBC requires that XtraFlex as part of the roof waterproofing system, once installed, be inspected in accordance with *NHBC Standards 2023*, Chapter 7, Clause 7.1.11, including the use of an appropriate integrity test, where required. Any damage to the product assessed in this Certificate must be repaired in accordance with section 9.4 of this Certificate and reinspected, in order to maintain product performance.

9.3 Workmanship

9.3.1 Practicability of installation was assessed by the BBA on the basis of Certificate holder's information. To achieve the performance described in this Certificate, installation of the product must be carried out by installers who have been trained and approved by the Certificate holder.

9.3.2 Details of the approved installers are available from the Certificate holder.

9.4 Maintenance and repair

9.4.1 Ongoing satisfactory performance of the product in use requires that it is suitably maintained. The guidance provided by the Certificate holder was assessed by the BBA and found to be appropriate and adequate.

9.4.2 The following requirements apply in order to meet the performance assessed in this Certificate:

9.4.2.1 The product must be the subject of six-monthly inspections and maintenance in accordance with the recommendations of BS 6229 : 2018, Chapter 7, and the Certificate holder’s own maintenance requirements, where relevant, to ensure continued satisfactory performance.

9.4.2.2 Should minor damage occur, it can be rectified by cleaning back to unweathered material, reactivating the surface and applying XtraFlex to the damaged area at the total application rate stated in Annex A.

10 Manufacture

10.1 The production processes for the product have been assessed, and provide assurance that the quality controls are satisfactory according to the following factors:

10.1.1 The manufacturer has provided documented information on the materials, processes, testing and control factors.

10.1.2 The quality control operated over batches of incoming materials has been assessed and deemed appropriate and adequate.

10.1.3 The quality control procedures and product testing to be undertaken have been assessed and deemed appropriate and adequate.

10.1.4 The process for management of non-conformities has been assessed and deemed appropriate and adequate.

10.1.5 An audit of each production location was undertaken, and it was confirmed that the production process was in accordance with the documented process, and that equipment has been properly tested and calibrated.

†10.1.6 The BBA has undertaken to carry out the above measures on a regular basis through a surveillance process, to verify that the specifications and quality control operated by the manufacturer are being maintained.

11 Delivery and site handling

11.1 The Certificate holder stated that the product is delivered to site in tins bearing the Certificate holder’s name, logo, product name, batch number, health and safety data and the BBA logo incorporating the number of this Certificate.

11.2 The product components and ancillary items packaging type and size are given in Table 7.

<i>Table 7 Packaging</i>		
Component/item	Package type	Size
XtraFlex	Tins	5 and 10 litre
Polymat	Rolls	17, 30 and 100 m ²
Polyroof Powder Catalyst	Packs	0.5 or 1 kg
Polyroof Quick Dry Epoxy Primer	Tins	4 litre
Uni-Primer DP	Tins	5 litre
Metal Detailing Primer	Tins	250 millilitre
Mordant T-Wash	Tins	5 litre
XtraFlex Accelerator	Tins	500 millilitre
XtraFlex Summer Inhibitor	Tins	500 millilitre
Polyroof butyl lap tape	Boxes	75 mm x 10 m rolls
Polyroof butyl bolt tape	Boxes	50 mm x 15 mm
Acetone	Tins	1 litre

Supporting information in this Annex is relevant to the product but has not formed part of the material assessed for the Certificate.

Construction (Design and Management) Regulations 2015

Construction (Design and Management) Regulations (Northern Ireland) 2016

Information in this Certificate may assist the client, designer (including Principal Designer) and contractor (including Principal Contractor) to address their obligations under these Regulations.

CLP Regulations

The Certificate holder has taken the responsibility of classifying and labelling the product and/or components under the *GB CLP Regulation* and the *CLP Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures*. Users must refer to the relevant Safety Data Sheet(s).

Management Systems Certification for production

The management system of the manufacturer has been assessed and registered as meeting the requirements of BS EN ISO 9001 : 2015 by the British Board of Agrément (Certificate 18/Q060).

Additional information on installation

General

A.1 Installation should also be in accordance with the relevant clauses of Liquid Roofing and Waterproofing Association (LRWA) Note 7 - *Specifier Guidance for Flat Roof Falls*.

A.2 All equipment should be cleaned after use with acetone.

Site and surface preparation

A.3 Substrates on which the product is applied must be properly prepared in accordance with the Certificate holder's instructions.

A.4 Adhesion to substrates depends on the condition and cleanliness of the substrate. Substrates must be visibly dry, sound and free from loose materials or contamination (eg moss or algae). In cases of doubt the advice of the Certificate holder's Technical Department should be sought.

A.5 Defects in the substrate, eg cracks, must be suitably repaired prior to application, in accordance with the Certificate holder's instructions.

A.6 Polyroof butyl lap tape should be used either side of active cracks or joints and Polyroof butyl bolt tape over bolt and fixing heads. The Certificate holder should be consulted for suitable products.

A.7 Any areas of fungal growth or moss must be treated with an approved, proprietary anti-fungal solution to ensure that all spores are destroyed.

A.8 Gutters and outlets must be checked to ensure that they are, and remain, clear of all debris.

Bibliography

BS 6229 : 2018 *Flat roofs with continuously supported flexible waterproof coverings — Code of practice*

BS 8217 : 2005 *Reinforced bitumen membranes for roofing — Code of practice*

BS EN 13501-1 : 2018 *Fire classification of construction products and building elements — Classification using data from reaction to fire tests*

BS EN 13501-5 : 2016 *Fire classification of construction products and building elements — Classification using data from external fire exposure to roof tests*

BS EN ISO 527-3 : 2018 *Plastics — Determination of tensile properties — Part 3: Test conditions for films and sheets*

BS EN ISO 9001 : 2015 *Quality management systems — Requirements*

DD CEN/TS 1187 : 2012 *Test methods for external fire exposure to roofs*

EAD 030350-00-0402 : August 2018 *Liquid applied roof waterproofing kits*

Conditions of Certificate

Conditions

1 This Certificate:

- relates only to the product that is named and described on the front page
- is issued only to the company, firm, organisation or person named on the front page – no other company, firm, organisation or person may hold or claim that this Certificate has been issued to them
- is valid only within the UK
- has to be read, considered and used as a whole document – it may be misleading and will be incomplete to be selective
- is copyright of the BBA
- is subject to English Law.

2 Publications, documents, specifications, legislation, regulations, standards and the like referenced in this Certificate are those that were current and/or deemed relevant by the BBA at the date of issue or reissue of this Certificate.

3 This Certificate will be displayed on the BBA website, and the Certificate Holder is entitled to use the Certificate and Certificate logo, provided that the product and its manufacture and/or fabrication, including all related and relevant parts and processes thereof:

- are maintained at or above the levels which have been assessed and found to be satisfactory by the BBA
- continue to be checked as and when deemed appropriate by the BBA under arrangements that it will determine
- are reviewed by the BBA as and when it considers appropriate.

4 The BBA has used due skill, care and diligence in preparing this Certificate, but no warranty is provided.

5 In issuing this Certificate the BBA is not responsible and is excluded from any liability to any company, firm, organisation or person, for any matters arising directly or indirectly from:

- the presence or absence of any patent, intellectual property or similar rights subsisting in the product or any other product
- the right of the Certificate holder to manufacture, supply, install, maintain or market the product
- actual installations of the product, including their nature, design, methods, performance, workmanship and maintenance
- any works and constructions in which the product is installed, including their nature, design, methods, performance, workmanship and maintenance
- any loss or damage, including personal injury, howsoever caused by the product, including its manufacture, supply, installation, use, maintenance and removal
- any claims by the manufacturer relating to CE marking.

6 Any information relating to the manufacture, supply, installation, use, maintenance and removal of this product which is contained or referred to in this Certificate is the minimum required to be met when the product is manufactured, supplied, installed, used, maintained and removed. It does not purport in any way to restate the requirements of the Health and Safety at Work etc. Act 1974, or of any other statutory, common law or other duty which may exist at the date of issue or reissue of this Certificate; nor is conformity with such information to be taken as satisfying the requirements of the 1974 Act or of any statutory, common law or other duty of care.

British Board of Agrément

1st Floor Building 3
Croxley Park, Watford
Herts WD18 8YG

©2023

tel: 01923 665300
clientservices@bbacerts.co.uk
www.bbacerts.co.uk



CERTIFICAT DE CONFORMITATE CERTIFICATE OF CONFORMITY

nr.: 418

Produsul:
This is to certify that

fabricat de/ manufactured by
cu sediul în/ located at

in fabrica / in factory
cu sediul în/ located at

îndeplinește cerințele din:
fulfils the requirements of

Produse pentru invelitori din foi metalice de oțel (tabla cutata si tabla ondulata - tige metalice)
Domeniu de utilizare: realizarea invelitorilor de acoperis pentru constructii civile si industriale
S.C. DAMILA S.R.L. sat Botorani, com. Maciuca, jud.Valcea
S.C. DAMILA S.R.L. Jud. Vâlcea, Râmnicu Valcea, Str. Bilciului nr.155
SR EN 508-1:2014

Schema de certificare a produsului / Product certification scheme:

2 (schema 4 din SR EN ISO/CEI 17067/ Scheme 4 of SR EN ISO/CEI 17067)

“**Selectia** (planificare si pregatire, specificare a cerintelor); **determinarea caracteristicilor** (incercari, verificarea proiectului, evaluarea serviciilor sau a proceselor, verificari); **analiza** (examinarea dovezilor de conformitate obtinute in faza de determinare); **decizia** (acordarea, mentinerea, extinderea, restrangerea, suspendarea, retragerea certificarii); **atestarea, licentierea** (emiterea certificatului, acordarea dreptului de utilizare a certificatului si a marelui de conformitate).

Supraveghere anuala prin incercarea sau evaluarea esantioanelor din fabrica; evaluarea productiei, a livrarii de servicii sau a functionarii procesului”

“**Selection** (planning and preparation, specification of requirements); **determining the characteristics** (tests, project verification, evaluation of services or processes, verifications); **analyze** (examination of the evidences of conformity obtained in the determination phase); **decision** (granting, maintaining, extending, restricting, suspending or withdrawing the certification), **certification, licensing** (issuing the certificate, granting the right to use the certificate and the conformity mark). Annual surveillance by testing or evaluating samples from the factory; assessment of the production, service delivery or process operation”

Referințe/ References: Raport de audit./ Audit report: nr.: 2170/12.07.2021

Data recertificării
Renewing certification date
15.07.2021

Data expirării
Expiry date
04.07.2024

Data certificării inițiale
Initial certification date
06.04.2009

Valabilitatea certificatului este condiționată de efectuarea auditurilor de supraveghere anuale, confirmată prin rapoartele de audit și de reevaluarea completă odată cu recertificarea acestuia înainte de expirarea perioadei de valabilitate (3 ani).

Certificate Validity is conditioned by the annual surveillance audits, confirmed by audit reports and by product recertification with its complete reassessment before the expiry of validity period (3 years).

Acest certificat de conformitate poate fi retras sau suspendat dacă nu se respectă regulile AEROQ (generale și specifice) de certificare a conformității produselor.

This Certificate of Conformity may be withdrawn or suspended, if are not adhered to AEROQ rules (general and specific) for conformity certification.

DIRECTOR GENERAL,
GENERAL MANAGER
ing.
Constantin Avram
Constantin AVRAM

