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according to Article 29 of the
Regulation (EU)
No 305/2011 of the European
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MEMBER OF EOTA



European Technical Assessment ETA-20/1021 of 2020/12/20

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:

Decothane Ultra

Product family to which the above construction product belongs:

Liquid-applied roof waterproofing

Manufacturer:

Sika Limited
Sika House
Miller Street
Preston
Lancashire
PR1 1EA
United Kingdom

Manufacturing plant:

Sika Limited
Sika House
Miller Street
Preston
Lancashire
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United Kingdom

This European Technical Assessment contains:

8 pages including 2 annexes 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. EAD 030350-00-0402 for Liquid applied roof waterproofing kits

This version replaces:

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

Communication of this ETA, including transmission by electronic means, must be in full (except the confidential Annexes 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:

- Decothane Ultra — a one-part, moisture-triggered, aliphatic polyurethane
- Decothane Ultra Base Coat — a one-part, moisture-triggered, aromatic polyurethane
- Sika Reemat Premium — a non-woven glass reinforcement
- Sika Concrete Primer — for priming concrete substrates
- Sika Concrete Primer LO — a low-odour primer for concrete substrates
- Metal Primer — for preparing metal substrates
- Skid-inhibiting Grit — to provide a non-slip finish to the final coat.

The kit is used to produce a two- or three-coat application. The application rates, finished thickness and reinforcements are given in the following tables.

| Coverage rate and finished thickness | | | |
|--|---------------------|---------------------|---------------------|
| System build-up | Ultra 15 | Ultra 20 | Ultra 25 |
| Base coat ($\ell \cdot m^{-2}$) (Decothane Ultra) | 1.25 | 1.25 | 1.50 |
| Reinforcement | Sika Reemat Premium | Sika Reemat Premium | Sika Reemat Premium |
| Top coat ($\ell \cdot m^{-2}$) (Decothane Ultra) | 0.50 | 0.75 | 1.00 |
| Dry film thickness (mm) | 1.5 | 1.8 | 2.2 |

| Coverage rate and finished thickness | | | |
|--|---------------------|---------------------|---------------------|
| System build-up | Ultra 15 BC | Ultra 20 BC | Ultra 25 BC |
| Base coat ($\ell \cdot m^{-2}$) (Decothane Ultra Base Coat) | 1.00 | 1.00 | 1.00 |
| Reinforcement | Sika Reemat Premium | Sika Reemat Premium | Sika Reemat Premium |
| Top coat ($\ell \cdot m^{-2}$) (Decothane Ultra) | 0.75 | 1.00 | 0.80 (in two coats) |
| Dry film thickness (mm) | 1.5 | 1.8 | 2.2 |

Sika Biowash is an auxiliary to the kit and is a surface biocide for the treatment of microbial contamination (fungi, algae, lichen, mildew and moulds) on substrates prior to application of the kit.

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

For use as a liquid-applied roof waterproofing on flat and pitched roofs on the following substrates:

- concrete
- reinforced bituminous membranes
- steel
- asphalt
- Sika-approved carrier membrane over jointed substrates, including timber
- existing coatings/roof paints
- polyisocyanurate foam insulation (PIR) in conjunction with Sika-approved carrier membrane
- mineral wool insulation (MW) in conjunction with Sika-approved carrier membrane
- single-ply membranes including PVC, TPO and EPDM.

The provisions made in this EAD are based on assumed working lives for the roof of 10 years for the Ultra 15 and Ultra 15 BC Systems and 25 years for the Ultra 20, Ultra 25, Ultra 20 BC and Ultra 25 BC Systems. The indications given on 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 Safety in case of fire (BWR 2)

| Characteristic | Classification |
|---------------------------|----------------|
| External fire performance | See Annex A |
| Reaction to fire | See Annex A |

3.2 Health, hygiene and the environment (BWR 3)

| Characteristic | Category |
|--|---------------------------|
| Resistance to water vapour | See Annex A |
| Watertightness | See Annex A |
| Resistance to wind loads | See Annex A |
| Resistance to dynamic indentation | See Annex A |
| Resistance to static indentation | See Annex A |
| Resistance to fatigue movements | See Annex A |
| Effect of low surface temperatures | See Annex A |
| Extreme low temperatures | No performance determined |
| Effects of high surface temperature | See Annex A |
| Resistance to heat ageing | See Annex A |
| UV radiation in the presence of water | See Annex A |
| Resistance to water ageing | See Annex A |
| Root resistance | No performance assessed |
| Content and/or release of dangerous substances | No performance assessed |
| Comparative testing of dynamic indentation – variation in installation temperature | See Annex A |
| Effects of day joints | See Annex A |

3.3 Safety and accessibility in use (BWR 4)

| Characteristic | Category |
|----------------------------|-------------|
| Resistance to wind loads | See Annex A |
| Resistance to water ageing | See Annex A |
| Slipperiness | See Annex A |

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

According to Decision 98/599/EC of the European Commission⁽¹⁾ and amended by Decision 2001/596/EC of the European Commission⁽²⁾, the AVCP system (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 |

(1) Official Journal of the European Communities L 287 of 24.10.1998.

(2) Official Journal of the European Communities L 209 of 02.08.2001.

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 2020-12-20 by



Thomas Bruun

Managing Director, ETA-Danmark

ANNEX A CATEGORISATION OF LEVELS OF PERFORMANCE OF DECOTHANE ULTRA

This annex applies to the Decothane Ultra 15 and Ultra 15 BC Systems roof waterproofing kits described in the main body of the European Technical Assessment.

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

- water vapour resistance factor (μ)
 - Decothane Ultra at 1.3 mm — 3082
 - Decothane Ultra/Decothane Ultra Base Coat at 1.3 mm — 3837
 - Decothane Ultra/Decothane Ultra Base Coat at 1.5 mm — 6172
- resistance to wind loads — >50 kPa
- assembled kit thickness — 1.5 mm

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

- External fire performance
 - $B_{ROOF}(t_1)^{(1)(2)}$
 - $B_{ROOF}(t_4)^{(1)(2)}$
- Reaction to fire — Euroclass E
- Categorisation by working life — W2
- Categorisation by climatic zones — M and S
- Categorisation by imposed loads
 - Ultra 15 — P2 to P4
 - Ultra 15 BC — P3 to 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

| | Slope(°)/friction coefficient |
|---|-------------------------------|
| no Skid-Inhibiting Grit (dry) | 18.7/0.34 |
| Skid-Inhibiting Grit at 0.25 kg·m ⁻² (dry) | 29.0/0.55 |
| Skid-Inhibiting Grit at 1.00 kg·m ⁻² (dry) | 32.0/0.62 |
| no Skid-Inhibiting Grit (wet) | 16.7/0.30 |
| Skid-Inhibiting Grit at 0.25 kg·m ⁻² (wet) | 28.3/0.54 |
| Skid-Inhibiting Grit at 1.00 kg·m ⁻² (wet) | 32.0/0.62 |

- (1) The system tested consisted of an 18 mm plywood substrate primed with Primer 600, one layer of S-vap 5000E SA self-adhesive vapour control layer, Decostik SP polyurethane adhesive applied at 100 g·m⁻², 80 mm glass fibre faced polyisocyanurate insulation board, Primer 600 applied at 150 g·m⁻², one layer of Carrier Membrane SA, one coat of Decothane Ultra applied at 1.0 ℓ·m⁻², a layer of Sika Reemat Premium and one coat of Decothane Ultra applied at 0.5 ℓ·m⁻².
- (2) The system tested consisted of an 18 mm plywood substrate primed with Primer 610, one layer of S-vap 5000E SA self-adhesive vapour control layer, Decostik SP polyurethane adhesive applied at 100 g·m⁻², 80 mm glass fibre faced polyisocyanurate insulation board, Primer 610 applied at 150 g·m⁻², one layer of S-vap 5000E SA self-adhesive Carrier Membrane, one coat of Decothane Ultra Base Coat applied at 0.75 ℓ·m⁻², a layer of Sika Reemat Premium and one coat of Decothane Ultra applied at 0.75 ℓ·m⁻².

ANNEX B CATEGORISATION OF LEVELS OF PERFORMANCE OF DECOTHANE ULTRA

This annex applies to the Decothane Ultra 20, Decothane Ultra 25, Ultra 20 BC and Ultra 25 BC Systems roof waterproofing kits described in the main body of the European Technical Assessment.

The substrates applicable to these kits are defined in the main body of the European Technical Assessment. The kit has the following characteristics:

- water vapour resistance factor (μ)
 - 1.8 mm Ultra 20 — 2878
 - 1.8 mm Ultra 20 BC — 4171
 - 2.2 mm Ultra 25 — 2782
 - 2.2 mm Ultra 25 BC — 3804
- resistance to wind loads — >50 kPa
- assembled kit thickness — 1.8 mm and 2.2 mm

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

- External fire performance
 - $B_{ROOF}(t1)^{(1)(2)}$
 - $B_{ROOF}(t4)^{(1)(2)}$
- Reaction to fire — Euroclass E
- Categorisation by working life — W3
- Categorisation by climatic zones — M and S
- Categorisation by imposed loads — P3 to P4
- Categorisation by roof slope — S1 to S4
- Categorisation by surface temperature
 - lowest — TL3 (Ultra 20 and Ultra 20 BC)
 - lowest — TL4 (Ultra 25 and Ultra 25 BC)
 - highest — TH4
- Statement on dangerous substances — No performance assessed
- Root resistance — No performance assessed
- Slipperiness

| | Slope(°)/friction coefficient |
|---|-------------------------------|
| no Skid-Inhibiting Grit (dry) | 18.7/0.34 |
| Skid-Inhibiting Grit at 0.25 kg·m ⁻² (dry) | 29.0/0.55 |
| Skid-Inhibiting Grit at 1.00 kg·m ⁻² (dry) | 32.0/0.62 |
| no Skid-Inhibiting Grit (wet) | 16.7/0.30 |
| Skid-Inhibiting Grit at 0.25 kg·m ⁻² (wet) | 28.3/0.54 |
| Skid-Inhibiting Grit at 1.00 kg·m ⁻² (wet) | 32.0/0.62 |

- (1) The system tested consisted of an 18 mm plywood substrate primed with Primer 600, one layer of S-vap 5000E SA self-adhesive vapour control layer, Decostik SP polyurethane adhesive applied at 100 g·m⁻², 80 mm glass fibre faced polyisocyanurate insulation board, Primer 600 applied at 150 g·m⁻², one layer of Carrier Membrane SA, one coat of Decothane Ultra applied at 1.25 ℓ·m⁻², a layer of Sika Reemat Premium and two coats of Decothane Ultra applied at 0.6 ℓ·m⁻².
- (2) The system tested consisted of an 18 mm plywood substrate primed with Primer 610, one layer of S-vap 5000E SA self-adhesive vapour control layer, Decostik SP polyurethane adhesive applied at 100 g·m⁻², 80 mm glass fibre faced polyisocyanurate insulation board, Primer 610 applied at 150 g·m⁻², one layer of S-vap 5000E SA self-adhesive Carrier Membrane, one coat of Decothane Ultra Base Coat applied at ℓ·m⁻², a layer of Sika Reemat Premium and two coats of Decothane Ultra applied at 0.8 ℓ·m⁻².