
Declaration of Performance

No: 401 (SLOVAKIA)

1. Unique identification code of the product-type: **Eliminator Bridge Deck Waterproofing Kit**

2. Intended use/es: **Coating for the tightness of concrete bridge decks against penetration of water.**

3. Manufacturer: **Stirling Lloyd, Gate Street, Dukinfield, Manchester, SK16 4RU**

4. Authorised representative: **Not applicable**

5. Systems/s of AVCP: **System 2+**

- 6a. Harmonised standard: **Not applicable**
Notified body/ies:

- 6b. European Assessment Document: **ETAG 033 :2010**
European Technical Assessment: **ETA-15/0362**
Technical Assessment Body:
Notified body/ies: **British Board of Agrément BBA (0836)**

7. Declared performances:

Characteristic	Test conditions (P,S,T) ⁽¹⁾	Mean (min)	Standard	Source
Bond strength to concrete	Control (Standard Application) (P1, S0, T5)	3.7 (3.2) MPa	EN 13596	ETAG 033 :2010
	Min Application Temp -10°C (P2min, S0, T5)	3.7 (2.5) MPa		
	Max Application Temp +38°C (P2max, S0, T5)	2.3 (1.4) MPa		
	Bond to Damp Concrete (P3, S0, T5)	1.7 (1.4) MPa	(EN 1297)	
	Bond to Day Joint (P4,S0, T5)	1.5 (1.3) MPa		
	Bond to Section Joint (P4, S0, T5)	1.8 (1.7) MPa		
	Heat Impact of CBM Asphalt (P1, S1.3, T5)	2.1 (1.7) MPa		
	Heat Impact of Mastic Asphalt (P1, S1.1, T5)	2.1 (1.9) MPa		
	Freeze/Thaw (x50 cycles) (P1, S3, T5)	2.8 (2.2) MPa	EN13687-3 (x50)	
	Heat Ageing (28days @ 70°C) (P1, S2, T5)	4.5 (4.1) MPa		
Bond strength of overlay to the assembled system	Controls		EN 13596	ETAG 033 :2010
	• Mastic Asphalt (MA) (P1, S1.1, T5)	2.1 (1.9) MPa		
	• Coarse Bituminous Mix (CBM) (P1, S1.3, T5)	2.1 (1.7) MPa		
	Freeze/Thaw			
Shear Resistance of assembled system to concrete/asphalt	• Mastic Asphalt (MA) (P1, S1.1, T5)	1.4 (1.1) MPa	EN13687-3 (x20)	[Both fail in asphalt]
	• Coarse Bituminous Mix (CBM) (P1, S1.3, T5)	0.6 (0.5) MPa		
Shear Resistance of assembled system to concrete/asphalt	Mastic Asphalt (MA) (P1, S1.1, T5)	1.3 (1.3) MPa	EN 13596	ETAG 033 :2010
	Coarse Bituminous Mix (CBM) (P1, S1.3, T5)	1.0 (0.8) MPa		

Change in tensile characteristics	Heat aged (P1, S2, T5) <ul style="list-style-type: none"> Change of tensile strength Change of elongation Heat impact (MA) (P1, S1.1, T5) <ul style="list-style-type: none"> Change of tensile strength Change of elongation 	+13% +3% +15% +4%	BS EN ISO 527-2 (Type 1 B specimens measured at 10 mm/min)	ETAG 033 :2010
Capacity to bridge cracks	Heat Impact (CBM 170°C) then Heat Age (28d @ 70°C). Test at -20°C (P1, S1.3/S2, T2) Heat Impact (MA 250°C) then Heat Age (28d @ 70°C). Test at -20°C (P1, S1.1/S2, T2)	Pass Pass	EN 14224	ETAG 033 :2010
Resistance to compaction of a coarse bituminous mixture	(P1, S1.3, T5)	Pass	EN 14692 (Method 2)	ETAG 033 :2010
Resistance to dynamic perforation	P1, S0, T5	Pass I ₄	EOTA TR 006	ETAG 033 :2010
Resistance to chloride ion penetration	P1, S0, T5	Pass (<0.04%)	EOTA TR 022	ETAG 033 :2010
Materials in contact (Change in hardness)	S5.1 Water (WA) S5.2 Alkali (Al) S5.3 Bitumen (Bi)	<1 IRHD 1 IRHD -1 IRHD	ISO 48 (N)	ETAG 033 :2010
Materials in contact (Change in mass)	S5.1 Water (WA) S5.2 Alkali (Al)	1.6% 0.2%	EN 14223 EN ISO 175	ETAG 033 :2010
Materials in contact (Assessment)	Diesel Engine oil Mineral oil Sodium chloride solution (20%) Sulphuric acid (10%) Sodium hydroxide (10%)	Satisfactory Satisfactory Satisfactory Satisfactory Satisfactory Satisfactory	EN 13529	ETAG 033 :2010
Resistance to flow	(P1, S0, T5)	Satisfactory		ETAG 033
Watertightness	(P1, S0, T5)	Pass	EN 14694	ETAG 033

Capacity to penetrate pores	Viscosity at: <ul style="list-style-type: none"> T4 (0°C) T5 (23°C) 	360 mPa·s 90 mPa·s	EN 3219	ETAG 033 :2010
Coverage	Weight of product for 1mm coat (P1, S0, T5) (Theoretical min on flat surface)	1.2 kg/m ²	EN ISO 2808	ETAG 033 :2010
UV radiation	QUV (2000hrs on RAL7030)	No: - Blistering - Cracking - Flaking	EN 1062-11	hEN 1504-2
Abrasion / Wear	Taber Abrader (H22 wheels, 1kg x 1000 cycles)	460 mg Loss	EN ISO 5470-1	hEN 1504-2
Permeability to CO ₂	2mm free film (P1, S0, T5)	S _D = 836m	EN 1062-6	hEN 1504-2
Permeability to Water Vapour	2mm free film (P1, S0, T5)	S _D = 23m (Class II)	EN ISO 7783	hEN 1504-2
Wheeltracking	2mm coating on concrete (30 000 cycles @ 60°C)	0.0 mm/x1000 0.29mm (15%)	EN 12697-22	

8. Appropriate Technical Documentation : **FPC 0836-CPR-15/F300**

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:

Frank Swallow (Director of Technical)

At: Manchester

on 18-Sep-17

