UL-EU CERTIFICATE

Certificate No.
UL-EU-00517-EN

Issue date
17-02-2015

Issue No.
2

Re-Issue date
03-03-2025

Expiry date
DD-02-2035
(10 Years)

Certificate Holder:
FSi Ltd

Address:
Westminster Industrial Estate
Tamworth Rd
Measham
DE12 7DS
United Kingdom

Product:
PS Coating

Places of production:
A/008

Standard:
EAD 350454-00-1104 / EN 13501-2

Authorised Signatory:

Chris Johnson

Issued by UL International (UK) Ltd

This is to certify that representative samples of the Certified Product listed above have been investigated by Underwriters Laboratories to the Standard(s) indicated on this Certificate, in accordance with the UL Global Services Agreement and the UL-EU Mark Service Terms and Conditions ("Agreement"). The Certificate Holder is entitled to use the UL-EU Mark for the Certified Product listed on the certificate and manufactured at the production site(s) listed, in accordance with the terms of the Agreement. Only those products bearing the UL-EU Mark for Europe should be considered as being covered by UL's UL-EU Mark Service. This Certificate shall remain valid through the Expiration date, unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.

UKAS PRODUCT CERTIFICATION
4705

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This certificate relates to the use of PS Coating coating/sealant for fire stopping where services walls. The detailed scope is given in pages 3 to 6 of this Certificate. This shows the thickness and acceptable dimensions, substrates and orientations required to provide fire resistance periods of up to 60 minutes (EI 60).

The product is certificated on the basis of:

i) ETA 14/0004 EC – CERTIFICATE OF CONSTANCY OF PERFORMANCE 1121 – CPR – JA5022
ii) Inspection and surveillance of factory production control by UL
iii) Fire resistance test data in accordance with EN 1366-3: 2009
iv) Classification in accordance with EN 13501-2
v) Durability and Serviceability as defined in EAD 350454-00-1104

The durability class of PS Coating is Z_1 - intended for use at internal conditions with high humidity equal to or higher than 85% RH excluding temperatures below 0°C, without exposure to rain or UV.

All pipe classifications in this certificate are for metal pipe material with pipe end type U/C (uncapped/capped).

According to EN 1366-3: 2021+A1: 2024, Clause H.4.1.8.6.2, the following end uses are envisaged* based upon the tested pipe end configuration:

Pipe material	Tested pipe end	Envisaged use scenario
Metal	C/U or C/C	Closed pipe systems (e.g. systems under pressure)
	U/U, U/C or C/U	Ventilated pipe systems (e.g. sewage pipes) and for closed pipe systems
Plastic	U/U or C/U	Ventilated pipe systems and for closed pipe systems
	U/U	Ventilated pipe systems, for rainwater systems and for closed pipe systems

* In the case where a national prescription is in conflict with the content of the table above, the national prescriptions prevail.

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Product-type: Coating	Intended use: Penetration Seal	
Basic requirement for construction work	Basic Requirement	Basic requirement for construction work
BWR 1 Mechanical resistance and stability		
-	None	-
BWR 2 Safety in case of fire		
EN 13501-1	Reaction to fire	Class F
EN 13501-2	Resistance to fire	See page 6
BWR 3 Hygiene, health and the environment		
EN 1026:2000	Air permeability (material property)	See page 4
EAD 350454-00-1104, Annex C	Water permeability (material property)	No performance determined
Declaration of manufacturer	Content, emission and/or release of dangerous substances	Declaration of manufacturer
BWR 4 Safety and accessibility in use		
EOTA TR 001:2003	Mechanical resistance and stability	No performance determined
EOTA TR 001:2003	Resistance to impact/movement	No performance determined
EOTA TR 001:2003 ISO 11600	Adhesion	No performance determined
ISO 8339: 2005, ISO 9046: 2004 & ISO 7389: 2003	Durability and serviceability	Z_1
BWR 5 Protection against noise		
EN 10140-2/ EN ISO 717-1	Airborne sound insulation	Rw(C; Ctr) = 41dB (-3; -7)
BWR 6 Energy economy and heat retention		
EN 12664, EN 12667 or EN 12939	Thermal properties	No performance determined
EN ISO 12572 EN 12086	Water vapour permeability	No performance determined
BWR 7 Sustainable use of natural resources		
-	-	No performance determined

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PS Coating (1mm WFT both sides of 50 mm stone mineral wool batt 140 kg/m^3: Air Permeability according to BS EN 1026: 2000				
Pressure (Pa)	Results under positive chamber pressure		Results under negative chamber pressure	
	Leakage (m^3/h)	Leakage (m^3/m^2/ h)	Leakage (m^3/h)	Leakage (m^3/m^2/ h)
50	0.6	0.8	1.1	1.5
100	1.0	1.4	1.3	1.8
150	2.8	3.9	1.5	2.1
200	3.8	5.3	1.9	2.6
250	4.5	6.3	2.0	2.8
300	5.0	6.9	2.4	3.3
450	5.1	7.1	1.9	2.6
600	6.7	9.3	2.2	3.1

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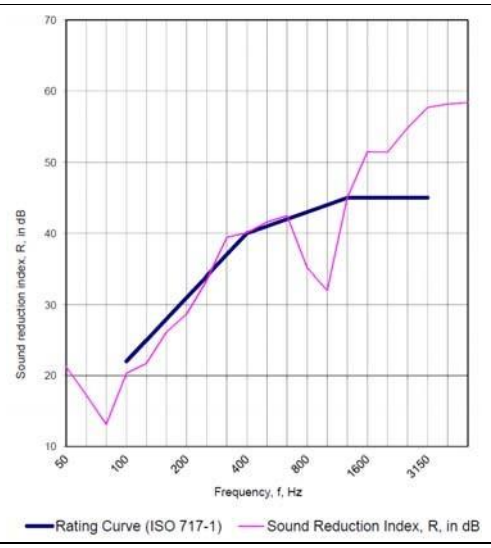
Flexi Coat: Acoustic performance according to BS EN ISO 10140-2:2010		
Configuration	**$R_w(C; C_{tr})$ Specimen only, 1m²**	**D_{new} Partition & Specimen**
500mm wide x 2000mm high, aperture filled with 2 layers of stone wool with PS Coating Barrier	41 (-3; -7) 	51 (-3; -7)

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Substrate	Minimum Substrate Thickness (mm)	Maximum Seal Size (mm)	Seal Position	Minimum Seal Depth (mm)	Incorporated seal	Service / Insulation**	Fire Resistance (mins.)	
							E	EI
Drywall/ Masonry/ Concrete	100	1200 high x 730 wide	Central	100*	15 mm deep by 15 mm wide annulus FSi HPE Sealant to both faces of the batt seal	Steel or Copper pipe 40 mm diameter and 1.5 – 14.2 mm wall thickness / 20 mm thick foil faced glass wool insulation (min 80 kg/m^3)	60	60
						Copper pipe 40 - 159 mm diameter and 2.3 – 14.2 mm wall thickness / 30 mm thick foil faced glass wool insulation (min 80 kg/m^3)	60	45
						Steel pipe 40 - 159 mm diameter and 2.3 – 14.2 mm wall thickness / 30 mm thick foil faced glass wool insulation (min 80 kg/m^3)	60	60
					None	Electrical cables up to 21 mm diameter	60	60
						Electrical cables 22-80 mm diameter	60	30
						Steel cable trays and ladders	60	60
						Telecommunication cables up to 21 mm diameter and in a bundle of up to 100 mm diameter	60	60
						Unsheathed electrical cables up to 17 mm diameter	60	15
						Unsheathed electrical cables 18-24 mm diameter	60	30
						Steel or Copper conduits up to 16 mm diameter	60	15
						Plastic conduits up to 16 mm diameter	60	60

* Two layers of 50 mm batt
** Continuous through seal and full length of the pipe

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The UL-EU Mark, as displayed below, shall appear on certified products only. Minimum size is not specified, as long as the Mark is legible. The following is suggested.

The minimum height of the registered trademark symbol ® shall be 1 mm. When the overall diameter of the UL-EU Mark is less than 9.5 mm, the trademark symbol may be omitted if it is not legible to the naked eye.

The UL-EU Mark may appear on a label, nameplate, or may be cast, stamped or molded into the product. When appearing on a label or nameplate, the Manufacturer's name or trademark along with a model number are also required on that same label or nameplate. If cast, stamped or molded, the Manufacturer's name or trademark and model number shall also appear elsewhere on the product.

All content shall be in accordance with the details provided on this UL-EU Certificate.

PROCUREMENT

The Production site may reproduce the Mark or obtain it from a UL authorized supplier. The list of UL authorized suppliers can be found on UL's online directory at www.ul.com.

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