



## Description

Flexi Coat is a highly advanced flexible penetration and aperture sealing system. The Flexi Coat is supplied in the form of both completed pre-coated Flexi Coat Fingers and as a coating to be applied to stone/mineral wool backing material for the purpose of linear joint seals as well as penetration seals

## Application / Use

- To reinstate fire resistance through walls and floors
- Movement seals in linear joints and penetration seals
- Multi-service penetrations
- Ideal for slab edge and head of wall applications
- Curtain wall and perimeter facades

## Packaging

- 10KG Pails
- Fingers – 1000mm x 150mm x 100mm

## Product Details

Material	Water based acrylic/vinyl acetate coating
Weight	~1.35g/cm <sup>3</sup>
Finish /Colour	White
Chemical properties/COSHH statement	See SDS latest version is available at <a href="http://www.fsiltd.com">www.fsiltd.com</a> or available on request from <a href="mailto:Technical.fsi.uk@etexgroup.com">Technical.fsi.uk@etexgroup.com</a>
Size/dimensions (product & installation spacial requirement)	For application in accordance with BS EN1366-4 and BS EN1364-4: 2014 please see UL-EU00642. For applications in accordance with BS EN1366-3 please contact our technical department <a href="mailto:technical.fsi.uk@etexgroup.com">technical.fsi.uk@etexgroup.com</a>
Shelf life	18 months if stored in accordance with storage conditions.
Wet film thickness	1mm
Skin Time	~6 hours (23°C/50% r.h)
Coverage	~2.8kg/m <sup>2</sup> , 2.24L/m <sup>2</sup>
Chemical Resistance / Limitations	Not to be used where areas are to be constantly immersed in water. Do not use on substrates that are likely to release solvents, oils or plasticizers. Not resistant to water, strong acids, strong bases, oxidizing agents (i.e hydrogen peroxide), alcohols, hydrocarbon solvents.

**Product Certification / Approval**

<b>CE</b> 21
FSi Ltd, Westminster Industrial Estate, Tamworth Road, Measham, DE12 7DS
UIC: FLEXI and DoP018-LGS/DoP018-PS
2531-CPR-CX010248 Flexi Coat® EAD 350454-00-1104 and EAD 350141-00-1106 Notified Body: 2531
Fire stopping and Sealing Products for Penetration Seals and Linear Joint Seals, See ETA 20/1030 and ETA 20/1010 www.fsiltd.com

CE Mark

ETA-20/1003,  
ETA-20/1030



UL-EU

UL-EU-00642-CPR



UAE CoC

LRTNA0000176297-2020



ISO 9001

11378



Registration  
No.5302

**Membership**



BASA

**Testing / Classification**

Standard	Description	Result
BS EN 1366-3:2009	Fire resistance tests for service installations. Penetration seals	Contact Technical.fsi.uk@etexgroup.com for details
EN 1027:2016	Windows and doors. Water Permeability	450 Pa - No Leakage
BS EN 1026:2000	Windows and doors. Air permeability.	600 Pa EN 1026 - 100Pa 0.4/1.5 m3/h/m2 (contact Technical.fsi.uk@etexgroup.com for details)
BS EN ISO 10140-2:2010	Acoustics — Laboratory measurement of sound insulation of building elements	Up to 51dB (contact Technical.fsi.uk@etexgroup.com for details)
ASTM E84	Testing for Surface Burning Characteristics of Building Materials	Contact Technical.fsi.uk@etexgroup.com for details)
EN 13501-1	Reaction to fire	B-s1, d0

## Installation & Operation

FSi Ltd. recommend installation of FSi Ltd. products is carried out by 3rd party certified installers.

Adequate space and accessibility should be provided for cutting and shaping the batts, applying and tooling the sealant.

The substrate must be clean, dry, sound and homogeneous, free from oils, grease, dust and loose particles. The product does not require a primer on most common surfaces.

Ensure that the aperture and services in question are tested with Flexi Coat system, and the site conditions are within the application specification. The aperture temperature needs to be at 5°C or above at time of installation. The Flexi Coat system must be in the orientation that ensures the lamellas are positioned to allow for compression. For Flexi Coat installation, stone wool backing material must be manufactured in accordance with EN 13162: 2001.

	For penetration seals	For linear joints and cavity barriers
Installation Flexi Coat Finger	Install Flexi Coat Finger into the opening with a minimum 20% compression fit between the substrates and tightly packed around services. Once the Flexi Coat Finger is installed, overcoat with Flexi Coat to all joints/junctions ensuring a minimum 20mm overlap on to all surrounding substrates and services.	Install Flexi Coat Finger into the opening flush with the upper surface of the floor with a minimum 20% compression fit between the substrates. Once the Flexi Coat Finger is installed, overcoat with Flexi Coat to abutting joints ensuring a minimum 20mm overlap on to all surrounding substrates.
Installation Flexi Coat	If supplied in liquid form the Flexi Coat is trowelled or sprayed into the aperture in or between the separating element/elements to a specified depth utilising stone wool backing material. Upon installation make sure that you install min. 100mm depth of stone wool (80kg/m <sup>3</sup> ) with a minimum 20% compression fit between the substrate and or around all services effectively, brush or trowel over the stone wool with Flexi Coat. Ensure Flexi Coat is applied to a minimum DFT (dry film thickness) of 1mm which will require minimum 2.5mm WFT (wet film thickness) with a minimum 20mm overlap on to all surrounding substrates/services.	Install min. 100mm depth of stone wool (80kg/m <sup>3</sup> ) with a minimum 20% compression fit between the substrates effectively flush with the upper surface of the floor. Brush or trowel over the stone wool with Flexi Coat. Ensure Flexi Coat is applied to a minimum DFT (dry film thickness) of 1mm which will require minimum 2.5mm WFT (wet film thickness) ensuring a minimum 20mm overlap on to all surrounding substrates.

## Installation & Operation

Where services penetrations are present such as pipes and cables the appropriate system should be installed shown in UL-EU-00642. Combustible services will require a closure device such as PipeBloc EL and Pyropro HPE.

Clean all tools and application equipment with water immediately after use.

Competence records should be kept for all Individuals installing this product (s). Installations should be suitably recorded and logged.

## Maintenance

Recorded inspection should be conducted in line with the maintenance and inspection schedule defined for the building/project.

These inspections should be completed and recorded by suitably competent individuals at intervals outlined in the operation and maintenance manual relevant to the building.

Ensure Safe Access and Egress when carrying out maintenance or inspection

Where product (s) is damaged or tampered, new product should be installed in line with installation guidance.

## Handling & Storage

For unopened material, store in a well-ventilated, dry, cool environment. Recommended temp ranges +5°C - +35°C. Protect against exposure to direct sunlight. Always ensure that safe manual handling procedures are followed at all times.

## Disposal

Removal and disposal of cured product must be done in a way that limits, as much as possible, the formation of dust. Adequate PPE must be worn including suitable respiratory equipment in the case of insufficient ventilation.

European Waste Catalogue code: **08 01 12**

(WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS); Wastes from MFSU and removal of paint and varnish; **08 01 12** - waste paint and varnish other than those mentioned in **08 01 11**

You must classify your own waste, the information given above is guidance only. Waste must be classified on a case-by-case basis.

The product is classified as non-hazardous, however, every care must be taken to avoid release to the environment. Take up liquid spill with absorbent material, dam if necessary to prevent access to water course.

Disposal of waste coating must be done according to official regulations and in accordance with a licensed collector's sorting instructions.

The product cannot currently be recycled or incinerated for energy capture.

Please see SDS for more information.

## Warranty

FSi Ltd. products are manufactured to rigid standards of quality. Any product which has been applied in accordance with FSi Ltd.'s written instructions and in any application recommended by FSi Ltd., but which is proved to be defective in product quality, will be replaced free of charge. No liability can be accepted for the information provided in this document although it is published in good faith and believed to be correct at time of issue. Any drawings provided are for illustrative purposes only. FSi Ltd. reserves the right to alter product specifications without prior notice, in line with our Company policy of continuous development and improvement. Changes due to new findings are possible, errors and misprints are not excluded. No liability whatsoever will be accepted for any loss, damage or injury arising from the use of the information given. FSi Ltd. have no control over the methods of installation, competence of operatives or suitability of site conditions, no warranties, expressed or implied, are intended to be given as to the actual performance of the product/system mentioned within this document.