

Silverseal® HS Compound

Product Type: Fire Resistant Mortar

Code/Model/Reference: SHSC

Technical Data Sheet



Description

Silverseal HS Compound is a fire-resistant Gypsum based mortar material used to reinstate the fire resistance performance of floor and wall constructions where apertures exist and there is a requirement to reinstate the fire resistance of the substrate. It can be combined with many other FSi passive fire protection products for sealing a wide range of installation service penetrations.

Application / Use

- To reinstate fire resistance through walls and floors
- Load bearing capabilities
- Multi-service penetrations
- Prevention of air leakage
- Maintains Acoustic performance
- Assumed working life 30 years
- For internal use

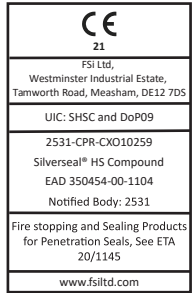
Packaging

- 20 Kg bags

Product Details

Material	Gypsum based mortar material
Weight	20kg
Finish /Colour	Light grey
Chemical properties/ COSHH statement	See SDS latest version is available at www.fsiltd.com or available on request from technical.fsi.uk@etexgroup.com
Size/dimensions (product & installation spacial requirement)	For penetrations seals, opening size and penetration service covered as per requirements of UL-EU-00924-CPR
Shelf life	12 months if stored in accordance with storage conditions
Usage	6 x 20kg per m2 @ 100mm

Product Certification / Approval



CE Mark

ETA 20-1145



UL-EU

UL-EU-00924-CPR



ISO 9001

11378



ASFP



BASA

Membership

Testing / Classification

Standard	Description	Result
BS EN 1366-3:2009	Fire resistance tests for service installations. Penetration seals	UL-EU-00924-CPR
BS 476 : Parts 20 and 22	Fire tests on building materials and structures. Method for determination of the fire resistance of non-loadbearing elements of construction	Contact technical.fsi.uk@etexgroup.com for details
BS EN 1026:2000	Windows and doors. Air permeability. Test method	Tested at 600 Pa (contact technical.fsi.uk@etexgroup.com for details)
ASTM E84	Standard Test Method for Surface Burning Characteristics of Building Materials	Contact technical.fsi.uk@etexgroup.com for details
ASTM E2923:14	Longevity of Fire Stop Materials	30 years
BS EN 13501-2:2016	Fire classification of construction products and building elements	UL-EU-00924-CPR
LEED 4.1	NC-2009 IEQc4.1 Low-Emitting Materials— Adhesives and Sealants	Contact technical.fsi.uk@etexgroup.com for details
BS EN ISO 10140-2:2020	Laboratory measurement of sound insulation of building elements. Measurement of airborne sound insulation	Up to 57dB achievable Contact technical.fsi.uk@etexgroup.com for details
AS1530.4:2014	Methods for fire tests on building materials, components and structures Fire-resistance tests for elements of construction	Contact technical.fsi.uk@etexgroup.com for details
BS EN 13501-1	Fire classification of construction products and building elements. Classification using data from reaction to fire tests	Contact technical.fsi.uk@etexgroup.com for details

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 appropriate installation of Silverseal HS Compound system.

The substrate must be clean, dry, sound and homogeneous, free from oils, grease, dust and loose particles. Measure the size of the opening, relevant position and size of the services.

Fit suitable shuttering to bottom of opening allowing for required depth to be achieved as outlined in UL-EU-00924-CPR, in one single pour. It is the responsibility of the installer to ensure the shuttering must be able to support the wet weight of the compound under pouring conditions.

Silverseal HS Compound can be mixed, preferably by mechanical paddle, or manually if required. Measure out the correct amount of clean water into a clean container to achieve the desired consistency. (Silverseal HS Compound: water ratio): Pourable Mix ratio of 3-3½: 1 Trowelable Mix ratio of 4: 1

Gradually add the Silverseal HS Compound stirring continually. Continue mixing until the Silverseal Compound is mixed to a smooth even consistency. Any spillage should be wiped up with a damp cloth before setting occurs. Mix only enough material sufficient for use within the recommended pot life (5 minutes). Pot life and set times will be reduced for lower water content and higher temperatures.

Installation should not be carried out when temperatures are above 35°C. Setting times are normally between 30 and 90 minutes however full cure time of 28 days must be adhered to, to achieve full fire resisting and load bearing capabilities.

Do not attempt to extend working time by remixing with additional water once the compound has started to set, as this will interfere with the setting process. Always mix in clean buckets. Using dirty buckets containing remains of compound from earlier mixes may reduce working time. Pour/trowel Silverseal HS Compound to the required depth as outlined in UL-EU-00924-CPR. The depth required must be achieved in one single pour if installed in a floor.

Where services penetrations are present such as pipes and cables the appropriate ancillary system (if required) should be installed as shown in UL-EU-00924-CPR. Combustible services will require a closure device such as PipeBloc PCP or PipeBloc EL/PWP .

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

Silverseal STD Compound:

European Waste Catalogue code: **17 01 01**

(CONSTRUCTION AND DEMOLITION WASTES (INCLUDING ROAD CONSTRUCTION)); Concrete, bricks, tiles, ceramics, and gypsum-based materials; 17 01 01 - Concrete

Where possible, recycling is preferable to disposal. Disposal should be carried out in compliance with local regulations. Avoid the formation of dust.

Packaging:

European Waste Catalogue code: **15 01 01**

(WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED); Packaging; 15 01 01 – Paper and cardboard packaging

Disposal of packaging should be carried out in compliance with local regulations by an authorised waste management company

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

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.

