

### General Product Description

Protecta® FR Putty is an easy to apply fire and sound rated sealant supplied as a non-setting putty. The putty is hand workable, re-useable and re-serviceable due to its non-setting properties. The putty is manufactured and supplied in different shapes and forms for different applications.

#### Putty Pads for sockets

When electrical sockets and switches are installed in dry lining partitions, the original fire rating of the partition is compromised. Fitting Putty Pads will reinstate the fire rating of the partition for up to two hours (depending on the partition fire rating) preventing the passage of smoke and flames in a fire, and sound and air movement during service life, through the electrical socket, into the cavity.

#### Putty Cords for fire sealing services

The putty cord is designed to be easily fitted around service penetrations where the gap around the services is very small, or there is no gaps at all so a conventional fire rated sealant is impossible or difficult to fit due to the required depth and backing material. The putty cords are fitted covering the gap around the services and do not need to fill the gap to the required depth.

#### Putty Pads for water supply boxes

When tap water wall boxes are installed in dry lining partitions, the original fire rating of the partition is compromised. Fitting Putty Pads will reinstate the fire rating of the partition preventing the passage of smoke and flames in a fire, and sound and air movement during service life, through the tap water wall boxes, into the cavity.

### Properties

- Supplied in different shapes and forms for multiple application areas
- Installation is very simple and quick
- Stops penetration of both cold and hot smoke
- Self-adhesive and very easy to apply without tools
- Unaffected by moisture; can be used in wet rooms
- Never hardens and ensures a tight fit
- Can be reshaped to other sizes if necessary
- Provides excellent sound insulation
- Tested for air permeability up to 1,000 Pa
- Environment- and user friendly; contains no solvents
- Contains a low pressure intumescent for optimal fire protection
- Working life of at least 50 years
- Certified in many areas around the World, for instance in the EU, EEA, UK, UAE, New Zealand and Australia
- Patented solution (Putty Cord)

### Sound Insulation

Description	Sound reduction
Putty Pads for sockets, single sided in drywalls	Rw 70 dB
Putty Pads for sockets, both sides in drywalls	Rw 67 dB
Putty Cords for service penetrations, single sided	Rw 68 dB
Putty Cords for service penetrations, double sided	Rw 70 dB

Protecta® FR Putty has been tested at Warringtonfire (UKAS accredited); according to EN ISO 10140-2:2010. Test reports are available upon request.



### Emission Data (indoor air quality)

Compound	Emission rate after 3 days	Emission rate after 4 weeks
TVOC	190 µg/m³	12 µg/m³
TSVOC	< 5 µg/m³	< 5 µg/m³
VOC w/o NIK	13 µg/m³	< 5 µg/m³
R Value	0.10	< 0.0099
Formaldehyde	< 3 µg/m³	< 3 µg/m³
Acetaldehyde	< 3 µg/m³	< 3 µg/m³
Carcinogenic	< 1 µg/m³	< 1 µg/m³

Regulation or Protocol	Conclusion
French VOC Regulation	A+
French CMR components	Pass
AgBB	Pass
Belgian Regulation	Pass
Indoor Air Comfort®	Pass
Indoor Air Comfort GOLD®	Pass
EN 717-1§	E1
BREEAM International	Compliant
BREEAM-NOR	Pass
LEED v4 (outside U.S.)	Compliant

Tested by Eurofins Product Testing. The test report is available upon request.

### Air Permeability

Positive Pressure (Pa)	Leakage (m³/h)	Negative Pressure (Pa)	Leakage (m³/h)
25	0.24	25	0.32
50	0.26	50	0.60
100	0.36	100	1.00
200	0.56	200	1.63
300	1.11	300	2.26
600	1.88	600	2.64
1000	2.49	1000	3.25

Protecta® FR Putty - tested at Warringtonfire Testing and Certification Ltd (UKAS accredited); according to EN 1026: 2016. The test report is available upon request.

### Pipe End Configurations

When testing pipes, one can choose not to cap (or close) the pipe, or cap the pipe inside the furnace, or outside the furnace, or on both sides. The configuration chosen depends on the intended application of the pipe and/or the installation environment.

The code defining if a pipe is capped is stated after the fire classification. For instance, EI 60 C/U which means the pipe was capped inside the furnace, and uncapped outside the furnace. The test configuration defines the approvals possible.

Our engineering judgment based on EN 1366-3:2022 are:

Intended use of pipe		Pipe end condition <sup>3)</sup>
Rainwater pipe, plastic	At drainage	U/U <sup>1)</sup>
	Not at drainage	C/C <sup>2)</sup>
Drainage or sewage pipe, plastic	Ventilated drain	C/U <sup>1)</sup>
	Unventilated drain	U/C <sup>2)</sup>
	Drain w/water trap	U/C <sup>1)</sup>
	Not at drainage	C/C <sup>2)</sup>
Metal or plastic pipe in closed system (water, gas, air etc.)		C/C <sup>1)</sup>
Metal pipe in ventilated system (sewage etc.)		U/C <sup>1)</sup>
Flue gas recovery system pipe, plastic		U/C <sup>1)</sup>
Pipe with open ends and ≥ 50cm length on both sides, plastic		U/U <sup>2)</sup>
Waste disposal shaft pipe, metal		U/C <sup>2)</sup>

<sup>1)</sup> Suggested in EN 1366-3:2022.

<sup>2)</sup> Polyseam's judgment based on assessments.

<sup>3)</sup> U/U classified fire seals cover C/U, U/C and C/C. C/U classified fire seals cover U/C and C/C. U/C classified fire seals cover C/C.

### Technical Data

Condition	Ready for use, silicone based putty
Durability/service	Class Z <sub>2</sub> : Intended for uses in internal conditions with humidity lower than 85 % RH excluding temperatures below 0°C, without exposure to rain or UV
Density	1.55 g/ml
Application temperature	+4 °C to +40 °C
Service temperature	-70 °C to +120 °C
Storage	Stored in temperatures between 5 °C and 30 °C
Working life	Under normal conditions; 50 years
Colour	Red
Form	Pads or cords pre-shaped to its intended use
Packaging	Carton boxes