





# PROTECTA® FR IPT

## TECHNICAL DATA SHEET



### Fire classification AS1530.4-2014

Protecta FR IPT maintains integrity of a joint in a fire situation for up to 4 hours as long as the surrounding construction remains intact.

Both the sealant and the backing material must be applied to a minimum depth to achieve the stated fire resistance. The type of backing material must be as specified.

| Joint WS<br>Vertical or Horizontal  | Min seal depth and backing material  | Classification                      |
|---|--|-------------------------------------|
| <b>PLASTERBOARD WALL</b>  |  |                                     |
| 2SMRLW or deflection head, any single layer (inc 10mm) or double layer system | 9mm deep F to both sides backed with 20mm stone wool insulation or head or base track/stud   | FRR of the wall up to FRR -/90/90   |
| n int or deflection head, any system with board greater than 12.5mm thick     | 15mm deep PT to both sides backed with 15mm stone wool insulation or head or base track/stud | FRR of the wall up to FRR -/120/120 |
| pen joint, any system with board greater than 15mm thick                      | 15mm deep to both side backed with PE rod  | FRR of the wall up to FRR -/120/90  |
| en oint, any system with board greater than 20mm thick                        | 20mm deep F to both sides backed with PE rod   | FRR of the wall up to FRR -/120/120 |
| Open joint, any system with board greater than 30mm thick                     | 25mm deep F to both sides backed with PE rod   | FRR of the wall up to FRR -/120/120 |
| <b>RIGID WALL</b>   |  |                                     |
| Open joint or deflection head, wall at least 90mm thick                       | 9mm deep F to both sides backed with 20mm stone wool insulation                              | FRR of the wall up to FRR -/60/60   |
| pen oint or deflection head, wall at least 100mm thick                        | 9mm deep F to both sides backed with 20mm stone wool insulation                              | FRR of the wall up to FRR -/90/90   |
| Open joint or deflection head, wall at least 100mm thick                      | 20mm deep F to both sides backed with PE rod   | FRR of the wall up to FRR -/120/120 |
| <b>RIGID FLOORS, Joint width up to 100mm</b>                                  |  |                                     |
| Control joint or joint between floor and concrete wall                        | 25mm deep ASF to the top face backed with 25mm stone wool insulation                         | FRR -/90/90<br>min 64mm             |
|   |  | FRR -/120/120<br>min 150mm          |

### Jointing construction

Plasterboard walls may be single or double layer provided the overall thickness of the plasterboard is at least as great as the sealant depth (for adhesion).

Thinner wall constructions of lesser rating are permitted provided the seal depth is not reduced (air cavity may be reduced).

Cavity does not have to be insulated. Studs may be steel or timber.

Rigid walls and floors must comprise concrete, aerated concrete or masonry, with a minimum density of 650 kg/cm.

### Usage

Usage for a standard 300ml cartridge.

| Joint size (mm)           | 6x6  | 9x6 | 12x6 | 25x10 | 7x7 fillet | 10x10 fillet |
|---------------------------|------|-----|------|-------|------------|--------------|
| Linear metres / cartridge | 8.63 | 5.5 | 4.1  | 1.2   | 12.0       | 6.0          |

### Sound insulation

| Description                   | Sound rating |
|-------------------------------|--------------|
| Single sided seal ≥12mm depth | 62 dB RW     |
| Double sided seal ≥12mm depth | 62 dB RW     |

Protecta FR IPT tested at BM Trada (UKAS accredited); according to EN ISO 10140-2:2010.

### Emission data (indoor air quality)

| Compound            | Emission rate after 3 days    | Emission rate after 4 weeks   |
|---------------------|-------------------------------|-------------------------------|
| TVOC                | 7,7 µg/m <sup>3</sup>         | < 5 µg/m <sup>3</sup>         |
| TSVOC               | n.d.                          | n.d. (< 5 µg/m <sup>3</sup> ) |
| VOC w/o NIK         | n.d.                          | n.d. (< 5 µg/m <sup>3</sup> ) |
| R Value             | < 1                           | < 1                           |
| Formaldehyde        | < 3 µg/m <sup>3</sup>         | < 3 µg/m <sup>3</sup>         |
| Acetaldehyde        | < 3 µg/m <sup>3</sup>         | < 3 µg/m <sup>3</sup>         |
| Sum for+ace         | < 0,002 ppm                   | -                             |
| Carcinogenic        | n.d. (< 1 µg/m <sup>3</sup> ) | n.d. (< 1 µg/m <sup>3</sup> ) |
| n.d. = not detected |                               |                               |

IPT complies with the requirements of GEV and the results correspond to the EMICODE emission class EC 1<sup>PLUS</sup> which is the best possible environmental and indoor hygiene health protection mark.

IPT is the only technology available with no dangerous emissions during usage and curing.

Tested by Eurofins Product Testing, report number G17798A.

### Technical Data

|                       |  |
|-----------------------|--|
| Form:                 | Ready to use thixotropic paste                 |
| Specific gravity:     | 1,54 g/cm <sup>3</sup>                         |
| VOC:                  | 0 g/l  |
| Durability w/ageing:  | Type X (UV / water) (pass)                     |
| Chemical resist.:     | Test passed (resistant)                        |
| Salt water immersion: | Test passed (resistant)                        |
| Microbiolog. growth:  | 0 (no growth)                                  |
| Hardness:             | Shore A 47                                     |
| Shrinkage:            | 15% volume single sided                        |
| Tensile properties:   | 3,79 MPa (379 N/cm <sup>2</sup> )              |
| Tensile elongation:   | 270%   |
| 3D-tensile prop.:     | 0,24 MPa (24 N/cm <sup>2</sup> )               |
| 3D-tensile elong.:    | 106%   |
| Tear properties:      | 50%  |
| Compression resist:   | 434 N / 1569 MPa                               |
| Radon resistance:     | 1,5mm thickness IPT gives<br>Z = 2.9 · 108 s/m |
| Flashpoint:           | None   |
| Reaction to fire:     | Classification D-s2, d0                        |
| Fire resistance:      | Up to class EI 240                             |
| Tack free time:       | 60 minutes maximum                             |
| Skin time:            | 30 minutes maximum                             |

Rate of cure: 10% at 24 hours

Solids content: > 80%  
Resistance to flow: < 0,5 med mer  
Shelf life: Up to 24 months when stored in unopened cartridges under cool dry conditions and 6 months in opened and resealed cartridges. Avoid temperatures above 35°C & below 5°C

Frost: Uncured sealant should not be frozen.

Thermal conductiv.: 0,845 W/mK (+/- 3%) at 20mm depth (to EN 12667)

Compatibility: Can be used in contact with most building and decorating materials

Service temp.: -40°C to +75°C

Classification  $\text{CE}$ : Facade (interior) 25HM  
Sanitary joints XS1

Colours: A range of colours available. Standard colours are white, light grey, grey, anthracite, brown and black.

Packaging: 200ml flexitube, 300ml and 380ml cartridge or 600ml foil.

Health & safety: No health hazard, indoor hygiene EMICODE EC1<sup>PLUS</sup> classification, approved for BREEAM rated building projects. See safety data sheet

Test laboratories: SP Sveriges Provningsverk, SE Intertek Chemicals & Phar., GB BM Trada, GB

Responsible: Eurofins Product Testing, DK GRAFT IPT Sealant & Adhesive is manufactured by Polyseam Limited in UK  
Phone +44(0)1484 421036

The information contained in this leaflet is given in good faith and is based on results gained from experience and tests. However all recommendations and suggestions are made without guarantee since the conditions of use are beyond our control. Goods are supplied subject to the terms and conditions of sale, a copy of which is available on request.