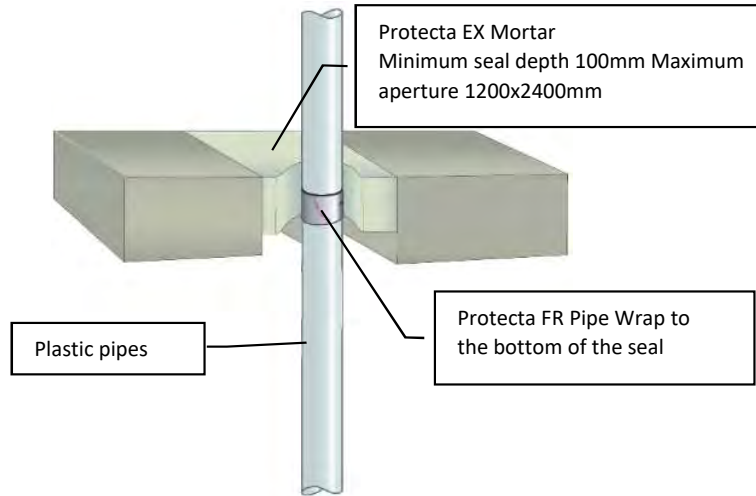


## Protecta EX Mortar - Plastic Pipe in Concrete Floor min 100mm thick

See pg2 for details for PVC, HDPE, PEX, ABS, PP  
 See pg3 for details for ACOUSTIC, AQUATHERM, etc

### Installation Instructions

1. Ensure the faces of the aperture opening are free of dust and any other contaminants. The faces may be moistened for better adhesion.
2. The seal can be positioned to either side of the construction or anywhere in between.
3. When installing Protecta® EX Mortar in hollow floor slabs or boards, level the fire seal with the soffit side. Ensure there is sufficient thickness of concrete below the void for the depth of mortar. Where this is not the case, tubular voids should be filled with stone wool normally the same thickness as the depth of the floor slab. Alternatively, simply fire seal on both sides.
4. Install a shutter board to achieve the required thickness of mortar. Make sure that this achieves a very tight seal.
5. Pour clean water into a suitable mixing vessel and pour enough mortar to obtain the required consistency. Mix well to avoid lumps. Always add the mortar to the water, do not reverse this mixing process.
6. Once the desired consistency is achieved pour or trowel the mortar onto the shutter board making sure that it flows into all corners and around services. Apply a firm pressure to the mortar to eliminate any trapped air bubbles. Build up to the required depth.



**Loadbearing Properties:** NOTE following for Health and Safety requirements -  
 Soft body impact, serviceability 500Nm. Soft body impact, safety in use 700Nm. Hard body impact serviceability 6Nm. Hard body impact, safety in use 10Nm. Concentrated load to 15kN on size up to 1500mm x1000mm (no failure), 4.85kN on sizes up to 1200mm x 2400mm.

**Minimum separations and limitations**  
 An aperture can include several services, and they may also be different. Services within the system Protecta® FR Board seal do not require a minimum separation, except pipes where pipe insulation penetrates the seal and plastic pipe penetrations which should be a minimum of 30 mm from other services in the aperture. Services should be a minimum of 25mm from seal edges. The total amount of cross sections of services (including insulation) should not exceed 60% of the penetration area. The minimum permitted separation between adjacent apertures is 200mm.

**Permitted Aperture Sizes**  
 Where standard aperture sizes of 1200mm by 2400mm are stated, the following additional sizes are automatically permitted:  
 1100mm x 2900mm      1000mm x 4000mm  
 800mm x infinite length

|                               |   |
|-------------------------------|---|
| System/FPA Register ID# FC206 |   |
| <b>Products</b>               | Protecta EX Mortar<br>Protecta FR Pipe Wrap   |
| <b>Application</b>            | Fire stopping of plastic pipes in rigid floors  |
| <b>Construction</b>           | Minimum floor thickness of 100mm and comprise aerated concrete or concrete with a minimum density of 650kg/m <sup>3</sup> |

|  |        |
|--|--------|
| <b>Fire &amp; Sound Classification</b> |        |
| <u>Required pipe wrap layers</u>       |        |
| Pipes up to 40mm - 1 layer             |        |
| Pipes up to 110mm - 2 layers           |        |
| Pipes up to 125mm - 4 layers           |        |
| Pipes up to 200mm - 6 layers           |        |
| Pipes up to 250mm - 7 layers           |        |
| Pipes up to 315mm - 10 layers          |        |
| Pipes up to 400mm - 16 layers          |        |
| Sound reduction (seal only)            | STC 64 |

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|                          | Drawn by:<br>K.B           |

System/FPA Register ID# FC206

|  |                |                  |                |              | Closed Systems Only |                |              |
|--|----------------|------------------|----------------|--------------|---------------------|----------------|--------------|
| Pipes  | Wall thickness | Wrap             | Classification | Mortar Depth | Wrap                | Classification | Mortar Depth |
| <b>PVC-U, PVC-C and similar</b>                                |                |                  |                |              |                     |                |              |
| Up to 40mm diam  | Up to 3.7mm    | 50mm x 1 layer   | FRR -/180/120  | 100mm        |                     |                |              |
| Up to 110mm diam   | Up to 6.6mm    |                  |                |              | 50mm x 2 layers     | FRR -/240/240  | 100mm        |
| Up to 125mm diam   | Up to 7.4mm    | 50mm x 4 layers  | FRR -/120/120  | 150mm        | 50mm x 4 layers     | FRR -/120/120  | 100mm        |
| Up to 160mm diam   | Up to 9.5mm    | 50mm x 6 layers  | FRR -/120/30   | 150mm        | 50mm x 6 layers     | FRR -/120/120  | 120mm        |
| Up to 200mm diam   | Up to 11.9mm   |                  |                |              | 50mm x 6 layers     | FRR -/120/120  | 120mm        |
| Up to 315mm diam   | Up to 12.1mm   |                  |                |              | 50mm x 10 layers    | FRR -/120/120  | 120mm        |
| Up to 400mm diam   | Up to 15.3mm   |                  |                |              | 50mm x 16 layers    | FRR -/60/60    | 120mm        |
| <b>PE, PE-LD, PE-MD, PE-HD, PE-X, ABS, SAN+PVC and similar</b> |                |                  |                |              |                     |                |              |
| Up to 40mm diam  | Up to 3.7mm    | 50mm x 1 layer   | FRR -/240/240  | 100mm        |                     |                |              |
| Up to 110mm diam   | Up to 10.0mm   | 75mm x 3 layers  | FRR -/240/240  | 150mm        | 50mm x 2 layers     | FRR -/120/120  | 100mm        |
| Up to 125mm diam   | Up to 11.4mm   | 50mm x 4 layers  | FRR -/240/120  | 150mm        | 50mm x 4 layers     | FRR -/240/240  | 100mm        |
| Up to 160mm diam   | Up to 14.6mm   | 50mm x 10 layers | FRR -/240/120  | 150mm        | 50mm x 6 layers     | FRR -/120/120  | 100mm        |
| Up to 200mm diam   | Up to 18.2mm   |                  |                |              | 50mm x 6 layers     | FRR -/120/120  | 150mm        |
| Up to 250mm diam   | Up to 7.8mm    |                  |                |              | 50mm x 7 layers     | FRR -/180/180  | 100mm        |
| Up to 315mm diam   | Up to 18.7mm   |                  |                |              | 50mm x 10 layers    | FRR -/60/60    | 150mm        |
| <b>PP, PP-MV, PP-H, PP-R and similar</b>                       |                |                  |                |              |                     |                |              |
| Up to 40mm diam  | Up to 5.5mm    | 50mm x 1 layer   | FRR -/120/120  | 100mm        |                     |                |              |
| Up to 75mm diam  | Up to 5.5mm    |                  |                |              | 50mm x 2 layers     | FRR -/240/240  | 100mm        |
| Up to 110mm diam   | Up to 6.3mm    |                  |                |              | 50mm x 2 layers     | FRR -/240/240  | 100mm        |
| Up to 125mm diam   | Up to 11.4mm   | 50mm x 4 layers  | FRR -/240/240  | 150mm        | 50mm x 4 layers     | FRR -/240/240  | 100mm        |
| Up to 160mm diam   | Up to 14.6mm   | 75mm x 4 layers  | FRR -/240/240  | 150mm        | 50mm x 6 layers     | FRR -/240/240  | 100mm        |
| Up to 200mm diam   | Up to 18.2mm   |                  |                |              | 50mm x 6 layers     | FRR -/240/240  | 120mm        |
| Up to 315mm diam   | Up to 28.6mm   |                  |                |              | 50mm x 10 layers    | FRR -/60/60    | 150mm        |
| Up to 400mm diam   | Up to 22.7mm   |                  |                |              | 50mm x 16 layers    | FRR -/60/60    | 150mm        |

|                     |   |
|---------------------|---|
| <b>Products</b>     | Protecta EX Mortar<br>Protecta FR Pipe Wrap   |
| <b>Application</b>  | Fire stopping of plastic pipes in rigid floors  |
| <b>Construction</b> | Minimum floor thickness of 100mm and comprise aerated concrete or concrete with a minimum density of 650kg/m <sup>3</sup> |

**Fire & Sound Classification**

Required pipe wrap layers  
 Pipes up to 40mm - 1 layer  
 Pipes up to 110mm - 2 layers  
 Pipes up to 125mm - 4 layers  
 Pipes up to 200mm - 6 layers  
 Pipes up to 250mm - 7 layers  
 Pipes up to 315mm - 10 layers  
 Pipes up to 400mm - 16 layers

 Sound reduction (seal only) STC 64


# Protecta®

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 Huddersfield, West Yorkshire, HD1 6SB  
 Email: post.uk@polyseam.com

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**Permitted Aperture Sizes**

Where standard aperture sizes of 1200mm by 2400mm are stated, the following additional sizes are automatically permitted:

|                         |                 |
|-------------------------|-----------------|
| 1100mm x 2900mm         | 1000mm x 4000mm |
| 800mm x infinite length |                 |

|                                 |                                       |
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System/FPA Register ID# FC206

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|--|----------------|-----------------|----------------|--------------|---------------------|----------------|--------------|
| Pipes  | Wall thickness | Wrap            | Classification | Mortar Depth | Wrap                | Classification | Mortar Depth |
| <b>Rehau Raupiano Plus PP-DD and similar</b>     |                |                 |                |              |                     |                |              |
| Up to 50mm diam                                  | Up to 2.7mm    | 50mm x 2 layers | FRR -/120/120  | 100mm        |                     |                |              |
| Up to 110mm diam                                 | Up to 2.7mm    |                 |                |              | 50mm x 2 layers     | FRR -/120/120  | 100mm        |
| Up to 125mm diam                                 | Up to 3.1mm    |                 |                |              | 50mm x 4 layers     | FRR -/240/120  | 100mm        |
| Up to 160mm diam                                 | Up to 3.9mm    |                 |                |              | 50mm x 6 layers     | FRR -/120/120  | 100mm        |
| <b>POLO-Kai NG Poloplast PP-MV and similar</b>   |                |                 |                |              |                     |                |              |
| Up to 110mm diam                                 | Up to 3.4mm    |                 |                |              | 50mm x 2 layers     | FRR -/180/180  | 100mm        |
| Up to 125mm diam                                 | Up to 3.9mm    |                 |                |              | 50mm x 4 layers     | FRR -/240/240  | 100mm        |
| Up to 160mm diam                                 | Up to 4.3mm    |                 |                |              | 50mm x 6 layers     | FRR -/240/240  | 100mm        |
| <b>Aquatherm Green SDR9 MF PP-RP and similar</b> |                |                 |                |              |                     |                |              |
| Up to 32mm diam                                  | Up to 3.6mm    |                 |                |              | 50mm x 1 layer      | FRR -/240/240  | 100mm        |
| Up to 50mm diam                                  | Up to 12.3mm   |                 |                |              | 50mm x 2 layers     | FRR -/240/240  | 100mm        |
| Up to 110mm diam                                 | Up to 12.3mm   |                 |                |              | 50mm x 2 layers     | FRR -/240/240  | 100mm        |
| <b>Wavin SiTech + PP-MB and similar</b>          |                |                 |                |              |                     |                |              |
| Up to 50mm diam                                  | Up to 3.4mm    | 50mm x 2 layers | FRR -/120/120  | 100mm        |                     |                |              |
| Up to 110mm diam                                 | Up to 3.4mm    |                 |                |              | 50mm x 2 layers     | FRR -/120/120  | 100mm        |
| <b>Gilbert Silent PP and similar</b>             |                |                 |                |              |                     |                |              |
| Up to 50mm diam                                  | Up to 3.4mm    | 50mm x 2 layers | FRR -/120/120  | 100mm        |                     |                |              |
| Up to 110mm diam                                 | Up to 3.4mm    |                 |                |              | 50mm x 2 layers     | FRR -/120/120  | 100mm        |
| <b>Blue Power Multilayer pipes and similar</b>   |                |                 |                |              |                     |                |              |
| Up to 50mm diam                                  | Up to 3.4mm    | 50mm x 2 layers | FRR -/240/240  | 100mm        |                     |                |              |
| Up to 110mm diam                                 | Up to 3.4mm    |                 |                |              | 50mm x 2 layers     | FRR -/120/120  | 100mm        |
| Up to 125mm diam                                 | Up to 3.9mm    |                 |                |              | 50mm x 4 layers     | FRR -/120/120  | 100mm        |
| Up to 160mm diam                                 | Up to 4.9mm    |                 |                |              | 50mm x 6 layers     | FRR -/240/240  | 100mm        |
| <b>Uponor Decibel pipes and similar</b>          |                |                 |                |              |                     |                |              |
| Up to 50mm diam                                  | Up to 3.8mm    | 50mm x 2 layers | FRR -/120/120  | 100mm        |                     |                |              |
| Up to 110mm diam                                 | Up to 3.8mm    |                 |                |              | 50mm x 2 layers     | FRR -/120/120  | 100mm        |

|                     |   |
|---------------------|---|
| <b>Products</b>     | Protecta EX Mortar<br>Protecta FR Pipe Wrap   |
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**Fire & Sound Classification**
Required pipe wrap layers

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 Pipes up to 250mm - 7 layers  
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