



### PRODUCT DESCRIPTION

PROMASEAL® Fire Compound is a white powder, which is mixed with water to the required consistency for installation.

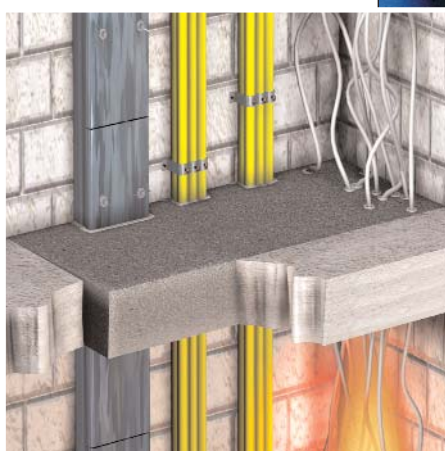
When set PROMASEAL® Fire Compound becomes a hard material with a white matt finish. The actual surface finish of the set product is dependent upon treatment at the time of application.

### APPLICATION

PROMASEAL® Fire Compound is used to provide a fire seal around service penetrations in walls and floors. The formless nature of the fire compound prior to setting allows it to be introduced between services and so create a complete void free seal, including around bunches of cables.

PROMASEAL® Fire Compound is also ideal for use around pipes and ducts where these penetrate compartment or separating walls or floors.

Even when fully cured PROMASEAL® Fire Compound permits the provision of additional or replacement services without the need to replace the complete installation, yet still retaining its strength properties.



### FIRE PERFORMANCE

The fire performance of PROMASEAL® Fire Compound will depend upon the thickness of the finished seal. PROMASEAL® Fire Compound has been tested to the procedures and adopting the criteria of BS 476: Part 20: 1987 for up to 240 minutes.

- 100mm thick: 240 minutes
- 75mm thick: 120 minutes
- 50mm thick: 60 minutes

### HEALTH AND SAFETY

Health and Safety data sheets for this product are available from Promat.

### ADVANTAGES

- Fire tested for up to 240 minutes
- Easy to apply
- Proven method
- Compatible with all known building products
- Gas tight seal

### INSTALLATION

#### General

PROMASEAL® Fire Compound is mixed with water to the required consistency. The powder should always be added to the water to ensure complete wetting. As a guide, in wall applications a stiffer mix is required, thus it is suggested that a mixing ratio of 2 parts PROMASEAL® Fire Compound to 1 part water (by volume) be used. Where a pouring grade is required it is suggested that the ratio should be 3 parts PROMASEAL® Fire Compound to 2 parts water (by volume).



### Floor Penetrations

When installing PROMASEAL® Fire Compound in floor penetrations temporary or permanent shuttering will usually be required. In all instances where the span of the PROMASEAL® Fire Compound exceeds 600mm, additional reinforcement e.g. rebars will be necessary.

For the floor seals fitted with reinforcement, the bars should be 12mm diameter at 150mm centres. They should be positioned at about mid-thickness and supported at their ends on steel angles, typically 30mm x 30mm x 1.2mm thick, which are fastened to the concrete floor with all steel expanding anchors, at maximum 500mm centres. For precise specification and various reinforcement systems please contact the Promat Technical Services Department.

The curing period will depend on ambient conditions but will normally take 2-3 weeks. Please consult the Promat Technical Services Department for further information.

### Wall Penetrations

In wall applications PROMASEAL® Fire Compound should be progressively built up in order to avoid slumping. Usually a single shuttering board is used. PROMASEAL® Fire Compound sets in approximately 15 minutes which allows the work to be undertaken without undue delay.

When movement of the services is expected it is good practice to point around the services with PROMASEAL® Mastic.

After setting, additional penetrations for services can be formed with normal hand tools. Redundant apertures can readily be filled with additional PROMASEAL® Fire Compound.

### Surrounding Structure

The seals may be installed in openings in concrete floors and in masonry or concrete walls, at least 120mm thick, and which have at least the same fire rating as that required for the penetration seal. The minimum density for the concrete for the floor or wall is 750kg/m<sup>3</sup> and of walls made of concrete blocks is 600kg/m<sup>3</sup>.

### Size of Opening

The maximum size of floor and wall openings is 1.44m<sup>2</sup> (non-loadbearing). For larger openings please consult the Promat Technical Services Department.

### Loadbearing Systems

Various loads can be applied to PROMASEAL® Fire Compound, for precise applications please contact the Promat Technical Services Department.