

Up to -/240/240 fire resistance in accordance with the requirements of BS 476: Part 20: 1987, BS EN 1366: Part 3: 2009 and/or AS 1530: Part 4: 2005, depending on applications and types of penetrating elements; insulation time is the measured time to insulation failure on surface of the PROMASTOP® Cement

In some instances, where insulation measured upon the penetrating elements is the required criteria, this time to insulation failure can be substantially shorter, e.g. metal pipes penetrating the floors. If insulation measured upon the penetrating elements is a specified performance criteria, please consult Promat

- ① PROMASTOP® Cement 30mm thick for up to -/120/120 fire resistance or 40mm thick for up to -/240/240 fire resistance
- ② PROMASEAL® Electrical Junction Seal (see page 55 for details)
- ③ Mineral wool 50mm thick x 120kg/m³
- ④ Non combustible metal pipes
- ⑤a Electrical cables supported with cable tray or steel trunking
- ⑤b Electrical cables with Armaflex covering
- ⑥ Steel Z-clips 25mm wide at nominal 300mm centres
- ⑦ Fire resistant concrete/masonry floors
- ⑧ All joints and contact points caulked with PROMASEAL®-A Acrylic Sealant

PROMASTOP® Cement is a lightweight fire resistant cement supplied as a dry powder and to be mixed with water for on-site preparation. This fine grade cement powder is white in colour for ease of identification and has a quick setting time. When the product is set, it presents a hard surface finish and does not shrink regardless of temperature change. It is readily drilled for post installation of services.

PROMASTOP® Cement has been tested up to a 240 minute fire resistance with various penetration seals in concrete/masonry floors and walls (with an equal or greater fire resistance level). It is not applicable in lightweight partitions.

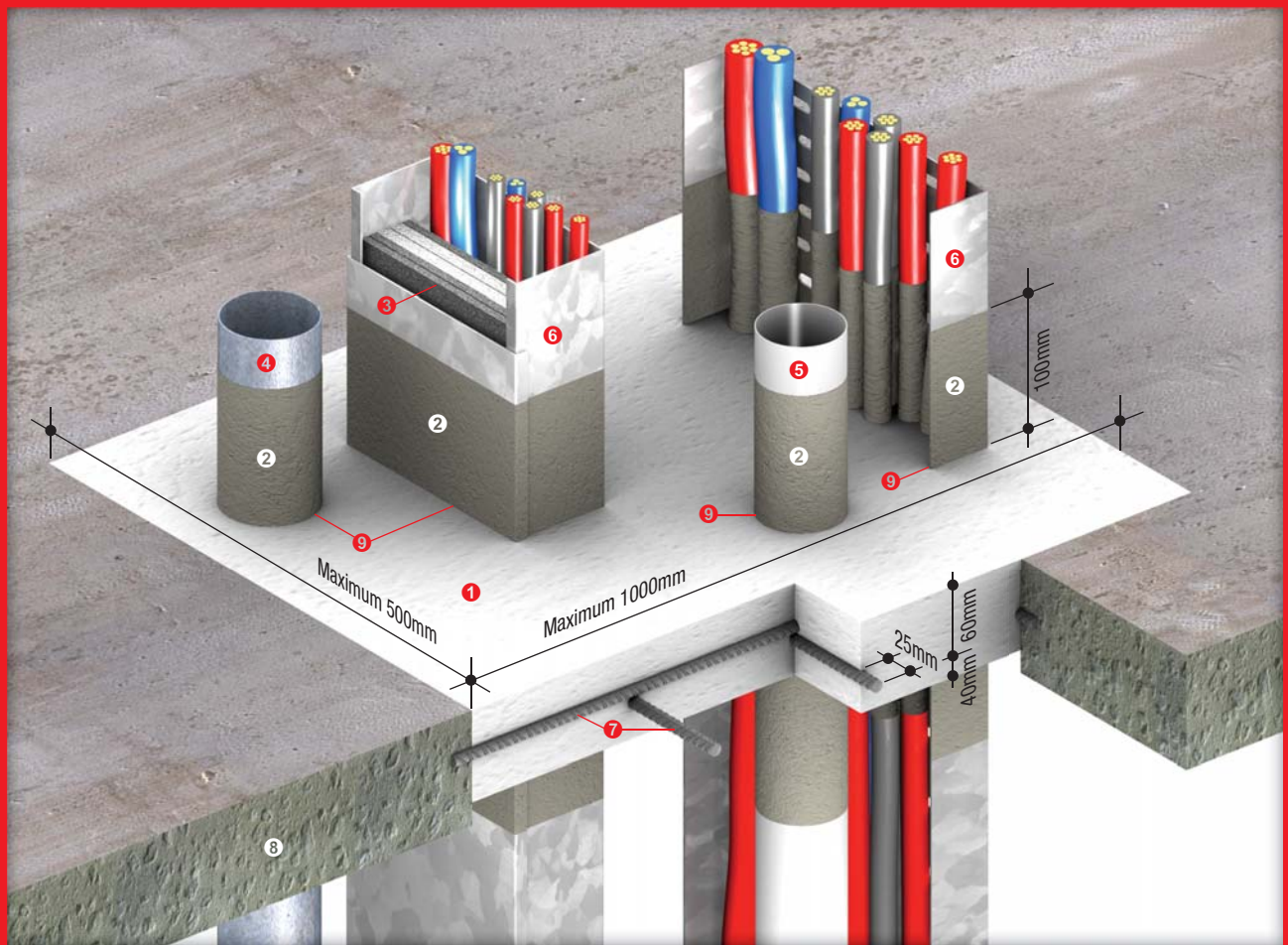
For floor applications, PROMASTOP® Cement can provide some degree of loadbearing capability depending on the thickness of the cement layer applied. Please consult Promat to determine the thickness to meet a specific loadbearing performance requirement.

PROMASTOP® Cement is white in colour and is supplied in convenient 20kg bags.

Installation

Openings in concrete/masonry floors and walls

Maximum dimensions of openings for PROMASTOP® Cement without the need to provide joints in the system are 1500mm wide x 600mm for floors and 600mm wide x 200mm for walls. For larger openings, please consult Promat.



Up to -/360/360 fire resistance in accordance with the requirements of BS 476: Part 20: 1987, BS EN 1366: Part 3: 2009 and/or AS 1530: Part 4: 2005, depending on applications and types of penetrating elements; insulation time is the measured time to insulation failure on surface of the PROMASTOP® Cement

In some instances, where insulation measured upon the penetrating elements is the required criteria, this time to insulation failure can be substantially shorter, e.g. metal pipes penetrating the floors. If insulation measured upon the penetrating elements is a specified performance criteria, please consult Promat

- ① PROMASTOP® Cement 100mm thick
- ② PROMASEAL® Bulkhead Sealer when required where insulation measured on the services is required (see pages 40 to 43 for details)
- ③ PROMASEAL® Electrical Junction Seal (see page 55 for details)
- ④ Non combustible metal pipes
- ⑤ Non plastic pipes
- ⑥ Electrical cables supported with cable tray or steel trunking
- ⑦ Steel reinforcement bars 12mm thick at 250mm centres
- ⑧ Fire resistant concrete/masonry floors
- ⑨ All joints and contact points caulked with PROMASEAL®-A Acrylic Sealant

Installation in concrete/masonry floors

For loadbearing capabilities, an unpenetrated floor opening of 1000mm x 500mm with 100mm thick reinforced PROMASTOP® Cement can achieve up to 360 minute fire resistance performance after which it successfully supports 1000kg of loading.

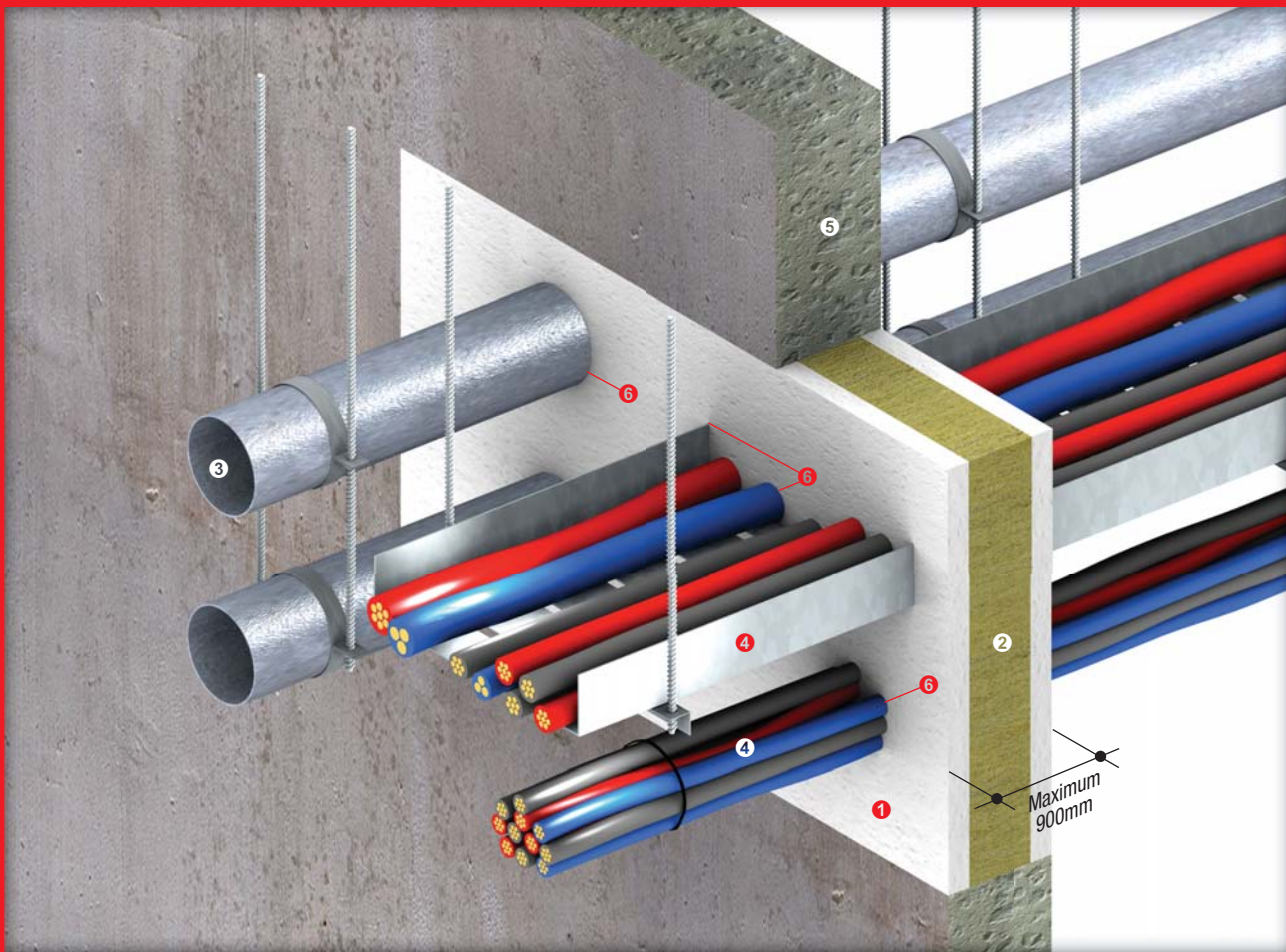
An unpenetrated floor opening of 1000mm x 600mm with 50mm mineral wool and 40mm thick unreinforced PROMASTOP® Cement will support 7.56KN of loading. Similarly, 70mm thick unreinforced PROMASTOP® Cement will support 10.21KN of loading. However, these are non fire tested and non penetrated specimens.

Due to the likelihood of building movement, it is advisable to place a steel or equivalent reinforcement over the barrier where foot traffic is expected and a visible warning sign near all barriers to identify its characteristics/inherent properties, with wording similar as follows:

WARNING: THIS IS A FIRE RESISTANT BARRIER. DO NOT DISTURB. DO NOT WALK OR PLACE ANY LOADS ON OR AGAINST THE BARRIER. IF THE BARRIER IS DAMAGED CONTACT (name of installer) IMMEDIATELY.

Installation in concrete/masonry walls

Where the aperture is within a hollow block or cavity wall, the cavities must be backfilled all round with PROMASTOP® Cement.



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| <ul style="list-style-type: none"> ❶ PROMASTOP® Cement 25mm thick for up to -/120/120 fire resistance or 50mm thick for up to -/240/240 fire resistance ❷ Mineral wool 50mm thick x 140kg/m³ ❸ Non combustible metal pipes with appropriate support | <ul style="list-style-type: none"> ❹ Electrical cables with or without supporting cable tray/steel trunking ❺ Fire resistant concrete/masonry floors ❻ All joints and contact points caulked with PROMASEAL®-A Acrylic Sealant |
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Guide To Coverage And Mixing

When mixed with 15 to 19 litres/kg of clean water, a 20kg bag will produce approximately 25 litres of mix which will cover an area approximately 1m² at 25mm deep or 0.5m² at 50mm deep. This equates to approximately 1.3 x 20kg bags per m² of clear opening at 30mm deep or 1.7 x 20kg bags at 40mm deep. Other usage depths may be calculated directly from these figures as a general guidance. The final yield will depend upon the volume of water used.

PROMASTOP® Cement can be mixed to a consistency to suit the application. For floors, if services are close together, a wetter, "pourable" mix is preferred. For walls, it is always preferable to use a dry, "packing" mix. The amount of water used will also depend on ambient weather conditions at the time of mixing, but do not use a ratio of less than 2 : 1.

"Packing" mix, add 2kg of cement compound to 1.35 litres of water.

"Pourable" mix, add 2kg of cement compound to 1.8 litres of water.

For best surface finish use a ratio of 2 : 1.33 (cement : water). Note should be taken that the order of mixing cement compound and water is important as it will affect the consistency of the mix. Always add cement compound into water and not the opposite.

The mix will remain useable for approximately 30 minutes but this will depend upon the weather conditions and amount of water used. Do not attempt to remix by adding water after setting has commenced.

In some applications it may be necessary to provide bond breakers around services that may move as a result of natural building or thermal movement. This can be achieved using PROMASEAL® IBS™ (see pages 36 and 37 for details). Always apply a bead of PROMASEAL®-A Acrylic Sealant at the junction of the services and the cement as this will provide a smoke, water and movement seal.