

TYPICAL PROPERTIES

Colour: Light Grey

Density loose bulk: 950 Kg/m³

Density wet cast: 1750 - 1900 Kg/m³

Density oven dry: 1450 - 1600 Kg/m³

Setting time: approx 1 hour

Expansion on setting: 0.1%

Promat PROMASEAL® Fire Compound Extra Strength

INTRODUCTION

Promat PROMASEAL® Fire Compound Extra Strength is a blend of high quality gypsum cement, fire resisting aggregates and additives, giving a compound with excellent fire resistance, combined with high strength, versatile workability and excellent acoustic insulation. Acoustic data is available on this product, please contact the Technical Services Department on +971 (4) 232 9780.

Promat PROMASEAL® Fire Compound Extra Strength is easily mixed with water to consistencies ranging from pourable, to stiff and trowelable, with controlled expansion on setting, giving a gas tight seal within the opening and around services.

Loadbearing Floor Seals

In a concrete floor slab opening, the unique combination of structural properties of the Promat PROMASEAL® Fire Compound Extra Strength seal enables it to support a load of several tonnes, even across quite large spans, without reinforcement.

Structural Seals around Fire Dampers

When installed around fire damper units the excellent crushing strength and shear resistance of Promat PROMASEAL® Fire Compound Extra Strength ensures that the installation frame will be retained in the wall or floor, if the ductwork should collapse, even when the damper frame is not tied back to the structure.

Flexural Strength Frupture at 28 days

Compound : Water ratio 2.5:1	5.2N/mm ²
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Compressive Strength at 28 days

Compound: Water ratio 2.5:1 - pourable	14.0N/mm ²
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Compound: Water ratio 3.0:1 - stiff	21.0N/mm ²
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* Compound: water ratio by volume

Fire Performance

	Depth of seal (mm)	Insulation (mm)	Integrity (mm)
Cables & Pipework through floors (EN 1366-3)	100	231	240
Ductwork Dampers through floors through walls (BS 476 Part:20)	90 82	225 164	240 240

Loadbearing Capacity at 48 hours

Un-reinforced floor seal, mix ratio 2.5:1

Span of Seal (mm)	Span/Depth Ratio (100mm deep floor seal)	Tensile Failure Pressure (kN/m ²) (one way spanning)	*Safe Working Load (kN/m ²)
900	9:1	30	10
1200	12:1	25	8
1500	15:1	15	5

* Safe working load of the floor seal is taken as one third of the tensile failure pressure. Safe working load is for temporary foot traffic not permanent loading.

QUALITY ASSURANCE

Promat manufactures to a quality system in accordance with ISO 9001: 2008 and has received full accreditation to these standards.

Operating to these standards means that all activities, which have a bearing upon quality, are set out in written procedures. Systematic and thorough checks are made on all materials and their usage. Test equipment is subjected to regular checks and is referred back to national standards.

The information given in this data sheet is based on actual tests and is believed to be typical of the product. No guarantee of results is implied however, since conditions of use are beyond our control.



Promat PROMASEAL® Fire Compound Extra Strength

MIXING PROCEDURE

Mix with clean water in a plastic container. Slowly add the dry powder to water while stirring by hand or power mixer to ensure a smooth lump-free mix.

Recommended Mixes

Compound	Water (by volume)
Floor Openings	2.5:1
Wall Openings	3.0:1

Do not attempt to remix by adding more water after the compound has started to set. Using dirty mixing buckets can accelerate setting and result in a weak compound.

NOTE: The wet mix will remain useable for approximately 45-60 minutes depending on batch size, water content and temperature. Any spillage should be wiped up with a damp cloth before setting occurs.

FLOOR OPENINGS

When sealing holes in floor slabs, appropriate shuttering must be installed, cut to fit tightly around any services within the opening, to support the wet mix until it sets. Combustible materials i.e. timber shuttering must be removed, after the mix has set.

For complex penetrations it may be preferable to initially form a thin seal around all the services, with a nominal 5mm layer of the compound mix. Once this has set, the remaining depth of seal should be poured in one operation.

Building up the seal in several operations with the individual layers being allowed to set, will result in a weak laminated structure with severely reduced load bearing performance.

YIELD

Approximately 7 x 20kg bags per m² at 100mm thick.

PACKAGING

20kg bags.

STORAGE

Must be stored in dry conditions. Shelf life, in unopened bag, at least 6 months.

TECHNICAL SERVICES

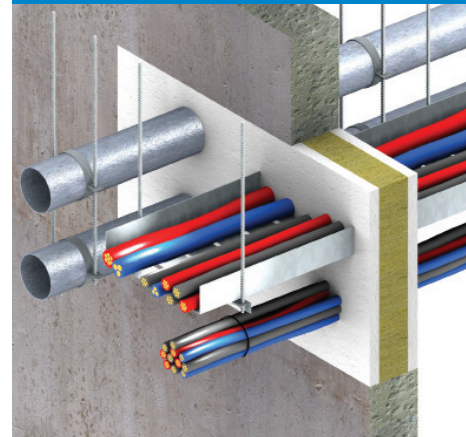
For additional technical support, please contact Promat Technical Services Department: Telephone: +971 (4) 232 9780 Fax: +971 (4) 232 9781



Promat Fire Protection

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Assessment No: BRE LPC CC 237371 PUKL



HEALTH AND SAFETY

Contains gypsum plaster and natural aggregates. Wear appropriate protective clothing, including gloves, dust mask, safety glasses, especially during mixing, to guard against dust inhalation, eye damage and skin irritation. A safety data sheet is available from the Promat Technical Services Department and, as with any other materials, should be read before working with the product. The product is not classified as a dangerous substance and so no special provisions are required regarding the carriage and disposal of the product to landfill. This can be placed in an on-site skip with other general building waste which should be disposed of by a registered contractor.

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