

Note on English translation / Hinweise zur englischen Fassung

This is a translation of the product data sheet valid in Germany.

All stated details and properties are in compliance with the regulations of the German standards and building regulations. They are only applicable for the specified products, system components, application rules, and construction details in connection with the specifications of the respective certificates and approvals.

Knauf Gips KG denies any liability for applications outside of Germany as this requires changes acc. to the respective national standards and building regulations.

KNAUF

Plaster and Façade Systems

P911.de

Product Data Sheet

2021-06



MP 75 L Fire

Gypsum-based plaster for increased fire protection

Product description

Composition

MP 75 L Fire consists of gypsum as a binder in combination with a special mix of lightweight aggregates and additives to ensure good machine application.

Storage

Store the bags frost-free on wooden pallets in a dry environment. Can be stored for approx. 6 months. Seal damaged and opened bags airtight and use them first.

Quality

In compliance with ETA-11/0229, the product is subject to initial type testing and continuous factory production control and bears the CE marking.

Properties and added value

- Fire resistance
 - for concrete ceilings and walls up to REI 240
 - for concrete supports and beams up to R 180
 - for steel beams and columns up to R 120
 - for profiled sheet metal with concrete up to REI 120
- Can be applied with machine
- Particularly high yield
- Gypsum-based
- For interiors
- Colour white



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Field of application

MP 75L Fire has been developed specially for passive fire protection in interiors.

It is designed to protect the load bearing capacity of the coated structural elements in the event of a fire for the duration of the fire resistance stipulated by the building supervision authorities for:

- Concrete slabs and walls
- Concrete columns and beams
- Steel columns and beams
- Trapezoid sheet metal with concrete

Application

| Substrate | Pretreatment |
|---|---|
| Untreated steel and profiled sheet metal. | Inspect for rust and remove if required. Sheet metal profiles must then be treated with an epoxy resin, alkyd or zinc-silicate based corrosion-proof coating in accordance with the manufacturers instructions. |
| Steel and profiled sheet metal with existing coatings | Firmly adhering coatings on the basis of alkalis, epoxies or zinc silicates or on a galvanized basis are suitable as a substrate for MP 75 L Fire. Remove other old coatings. A non-combustible plaster base can be used on firmly adhering coatings that cannot be removed. |
| Uncoated concrete | Remove film-forming concrete release agent as well as any existing sinter skin and other impurities by suitable means. See also brochure P10.de Knauf Plaster Competence (Section: Substrate examination). |
| Concrete with an existing coating | Remove the old coatings. A non-combustible plaster base can be used on firmly adhering coatings that cannot be removed. |

Substrate

Check the substrate for compliance with VOB part C, DIN 18350, chapter 3.1 and/or according to VOB part B, DIN 1961 paragraph 4 section 3. All substrates must be stable, dry, even and free of grease and dust as well as free of any residual substances that may reduce the adhesion.

Pretreat the substrate in accordance with the table above.

Cover easily-soiled building components before commencement in accordance with Code of Practice "Abklebe- und Abdekarbeiten für Maler- und Stuckateurarbeiten - Masking and covering for painting and stucco work" (German only) issued by the Bundesverband Ausbau und Fassade.

Machines / equipment

Knauf PFT mixing pump G 4

- Stator: D4-3 or D6-3
- Rotor: D4-3 or D6-3
- Mortar hoses: Ø 25 mm
- Spray nozzle: Ø 10 or 12 mm
- Wet mortar pumping distance: 25 m
- Mixing screw: G 4 / G 5

Alternative:

- Insulation plaster mixing screw G 4 / G 5

For intricate components and/or a finer spray pattern, a spray gun as well as a stator with a reduced delivery output (l/min) can be used.

- Stator: D3-4 or D3-5

Application

The required application consistence is set by gauging the water feed accordingly (approx. 1.3 to 1.5 bar/metre of mortar hose). The spray pattern is influenced by adjusting the air nozzle.

The mortar is then applied evenly at a distance of approx. 30 cm from the substrate in uniform layers to the specified thickness so that a grainy surface is achieved.

Check the application thickness regularly during spray application.

Depending on the temperature, breaks in spraying not exceeding 10 to 15 minutes are possible. Clean the machine and hoses with longer breaks / interruptions in application.

Plaster thickness

The necessary minimum application layer thickness is a factor that is dependent on the fire resistance requirements (see brochure P91.de Fire Protection Gypsum Plaster Planning Guide).

Layer thickness on steel: minimum 6 mm up to approx. 40 mm

Layer thickness on concrete: minimum 7 mm up to approx. 25 mm

Application temperature / climate

Do not apply with room and/or component temperatures under +5 °C or exceeding +40 °C. Protect freshly applied plaster against direct sunlight, frost, rain and wind until it has fully dried.

Application time

About 180 to 300 minutes depending on the substrate.

Drying

Provide good ventilation to ensure quick drying of the plaster.

If mastic asphalt screed is applied after plastering, sufficient transverse ventilation is required to avoid thermal stresses.

Drying time: at 10 mm plaster thickness is an average of 14 days depending on the humidity, temperature and ventilation of the room. The drying time will be extended with unsuitable temperatures / air humidity.

Surface

The MP 75 L Fire finished surface is rough. If necessary, the concrete surfaces can be levelled and smoothed after spreading, setting and drying with subsequent smoothing/pore sealing with Multi-Finish (M).

The additional coatings may not be attributed to the effective fire protection layer thickness of the MP 75 L Fire.

Caution

The layer thicknesses specified in the P91.de Planning Guide are minimum thicknesses that must be observed. It is not permissible to apply a second layer after the plaster has hardened. For this reason, we recommend application of a layer thickness that is always 10 to 20 % more than the minimum to avoid the risk of layer thicknesses that are too thin.
MP 75 L Fire is not suitable for structurally effective concrete renovations.

Technical data

| Description | Standard | Unit | MP 75 L Fire |
|--|------------|--|-------------------|
| Reaction to fire | EN 13501-1 | Class | A1 |
| Compressive strength | EN 1015-11 | N/mm ² | ≥ 1.7 |
| Bond strength <ul style="list-style-type: none"> ▪ on concrete and steel ▪ on galvanized sheet metal | EN 13279-2 | N/mm ² N/mm ² | ≥ 0.1 ≥ 0.05 |
| Water vapour diffusion resistance | EN 12086 | – | 8 |
| pH value | – | – | 12 – 13 |
| Initial setting time | – | min | approx. 90 - 170 |
| Final setting time | – | min | approx. 180 - 300 |
| Bulk density | – | kg/m ³ | 500 – 600 |
| Dry density | EN 1015-10 | kg/m ³ | approx. 750 |

The stated technical data were evaluated acc. to the respective test standards. Deviations under site conditions are possible.

Material requirement and efficiency

| Application | Consumption approx. kg/m ² | Yield approx. | |
|-----------------------------|--|---------------------|-------------------|
| | | m ² /bag | m ² /t |
| 10 mm application thickness | 6.7 | 3.0 | 150.0 |

All stated figures are approximate values and may deviate depending on the substrate conditions. The exact consumption can only be determined on the individual object.

Product range

| Description | Application | Packaging unit | Material number | EAN |
|--------------|-------------|------------------|-----------------|---------------|
| MP 75 L Fire | 20 kg / bag | 24 bags / pallet | 00466648 | 4003982315700 |

Sustainability and environment

| Short description | Value |
|--|------------------------------|
| Requirements of the German AgBB-scheme | Compliant |
| Corresponds to the French emissions class | A+ |
| VOC content acc. to RL2004/42/EC | Not relevant |
| Solvent-free and softener-free acc. to VdL-RL01 (Revision 4) | Not relevant |
| Available certificates | IBR |
| Environmental Product Declaration | EPD-BVG-KNG-20140073-1AG1-DE |



Observe safety data sheet!

For safety data sheets and CE marking see
pd.knauf.de



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www.youtube.com/knauf



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