MAPEFLEX FIRESTOP 1200°C

Refractory grout

WHERE TO USE

Mapeflex Firestop 1200°C is a one-component, asbestos-free, quick-setting, rigid, silicate refractory fire resistant sealing grout, high temperatures and fumes. Ideal for making rigid seals in chimneys, ovens, radiators, barbeques, flues. Also suitable for pointing or for installation layers on refractory bricks when building or carrying out maintenance work on elements in continuous, permanent contact with flames or heat up to +1200°C, with temporary peak temperatures up to +1600°C.

Some application examples

Rigid grouting of joints, for missing areas and installation layers for new elements in contact with flames or at very high temperatures when in service.
It is most frequently used for the following applications:
· ovens;
· chimneys;
· radiators;
· barbeques;
· flues.
Bonds to all porous, absorbent substrates after the contact surface has been cleaned and dampened with water.

TECHNICAL CHARACTERISTICS

Mapeflex Firestop 1200°C is a soft paste in emulsion which forms rigid grout when the water contained in it has evaporated off. When large quantities are applied, fresh paste on the hardened layer may be required.
Mapeflex FireStop 1200°C must be applied and left to dry at room temperature and then the substrate must be gradually heated up after at least 24 hours at +23°C.
Mapeflex Firestop 1200°C is a rigid, non-deformable grout made from sodium silicate and special mineral fillers and is completely free of hazardous toxic substances, such as asbestos. When fully hardened, **Mapeflex Firestop 1200°C** is a class A1 non-combustible product according to EN 13501.
When **Mapeflex Firestop 1200°C** comes into contact with fire or heat it does not increase in volume.
Mapeflex Firestop 1200°C is odourless and contains no solvents.

RECOMMENDATIONS

· Do not apply on dusty or crumbly surfaces.
· Do not apply on surfaces with stagnant water or with capillary rising damp. Damp substrates may be tolerated.
· Do not apply in joints subject to cyclical movements.
· Do not use on surfaces exposed to frequent contact with rainwater or high levels of humidity.
· Wear protective gloves and goggles when handling the product.
· Remove traces of excess sealant immediately after smoothing it over with a damp sponge.

· Different masses in the first volume of product extruded do not compromise the efficiency of the sealant.

APPLICATION PROCEDURE

Preparation of the surface for bonding or sealing

All surfaces to be bonded or sealed must be dry or just slightly damp, sound and free of dust, loose parts, oil, grease, wax, old paintwork and rust on metal surfaces.

Preparation and application of Mapeflex Firestop 1200°C

Insert the cartridge in an extrusion gun, cut off the tip of the cartridge and screw on the extrusion nozzle; trim the nozzle at an angle of 45° according to the extruded width required and squeeze out the product in a continuous flow into the joint. Avoid entrapping air in the process. To avoid the sealant seeping out of the joint and to get a more attractive finish, we recommend applying masking tape along the edges of the joint.
When pointing joints of refractory bricks on new or old structures, remove all loose parts to form a section suitable for the sealant at least 5x5 mm. Dampen absorbent substrates to avoid the extruded sealant drying out too quickly. On substrates at the surrounding temperature (up to +35°C) apply the sealant by extruding it from the cartridge with a conventional silicone gun. Fill the section with sealant, smooth over the surface with a damp sponge and remove all excess material before it hardens. Once hardened the excess material may only be removed mechanically. Leave the product to dry at room temperature for at least 24-72 hours before slowly bringing the sealed element or structure up to working temperature. If large sections of sealant are applied, the product may shrink and crack due to the evaporation of the water in the sealant. In such cases, reintegrate the product with a second layer on top of the first one.
To lay refractory bricks or blocks, extrude a small bead of **Mapeflex Firestop 1200°C** with a suitable diameter so that the brick laid on the sealant presses and spreads it to cover the entire face of the brick. Remove any excess bleeding of the product immediately after application.

CONSUMPTION

· For pointing joints: 5x5 mm section approx. 12 m/cartridge, 10x10 mm section approx. 3 m/cartridge.
· For laying refractory bricks: approx. 4 m/cartridge.

CLEANING

Clean all tools immediately after use with water.
Once hardened, the product may only be removed mechanically.

PACKAGING

Boxes of 12 units (300 ml cartridges).

COLOURS AVAILABLE

Mapeflex Firestop 1200°C is available in grey.

STORAGE

12 months at room temperature (+5°C/+25°C), protect from freezing weather and keep away from sources of heat.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapeflex Firestop 1200°C is not considered hazardous according to current regulations regarding the classification of mixtures.
During use we recommend wearing protective gloves and goggles and to take the usual precautions for the handling of chemicals.
For further and complete information about the safe use of our product please refer to the latest version of our Safety Data Sheet.
PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)
PRODUCT IDENTITY

Appearance:	thixotropic paste
Composition:	silicates, resins, sodium silicate (alkaline) with inert minerals; does not contain asbestos
Reaction to fire (EN 13501):	class A1
Colour:	grey
Density (gr/ml):	1.75
Formation of skin:	5-10 minutes
Hardening rate:	4-5 mm/24 hours
Dry solids content (%):	65
APPLICATION DATA (at +23°C and 50% R.H.)	
In-service temperature range:	from -20°C to +1200°C
Allowable movement of joint:	no movement

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.
Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com

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