

Plastimul Fiber

Fibre-reinforced bitumen waterproofing emulsion for general purpose use

WHERE TO USE

- Waterproofing foundations.
- Waterproofing supporting walls.

Some application examples

- Cold waterproofing of masonry structures and cast concrete for retaining purposes.
- Waterproofing concrete basins, storage tanks and wells used to store water, including water which is slightly acidic or alkaline.
- Waterproof protective coat for concrete guttering and chimney stacks.
- Waterproofing flat or curved roofs and terraces laid to falls.

TECHNICAL CHARACTERISTICS

Plastimul Fiber is a solvent-free paste made from selected bitumen emulsified in a watery solution and fine-grained filler, a formula developed in MAPEI's own research laboratories.

Plastimul Fiber is thixotropic which makes it easy to apply and form a waterproofing layer on vertical and sloping surfaces.

It may also be used to protect masonry and concrete structures, including those with damp surfaces due to incomplete curing or unfavourable climatic conditions.

Once completely dry, **Plastimul Fiber** forms a waterproof plastic dressing which is resistant to re-emulsification after long periods of immersion in water, including water which is slightly acidic or alkaline, and which is also resistant to aggressive agents from the ground.

RECOMMENDATIONS

- Do not apply **Plastimul Fiber** if the temperature is lower than +5°C or on frozen surfaces.
- Do not apply **Plastimul Fiber** if rain is imminent.
- Do not dilute **Plastimul Fiber** with organic solvents.
- Do not apply **Plastimul Fiber** on surfaces used for storing comestible products.
- Do not use **Plastimul Fiber** to waterproof structures in contact with organic solvents or minerals, vegetables or animal fat and oil.

APPLICATION PROCEDURE

Preparation of the substrate

Before applying **Plastimul Fiber**, the substrate must be cleaned until all traces of cement laitance have been removed, which is always present on concrete cast into formwork, and all traces of oil and grease left on the conglomerate by the stripping compound.

The surface of the concrete or the substrate must also be free of all rough edges and gravel clusters.

| TECHNICAL DATA (typical values) | |
|---|---|
| PRODUCT IDENTITY | |
| Consistency: | thick paste |
| Colour: | black |
| Density (g/cm³): | 1.00 |
| pH: | 10 |
| Brookfield viscosity (Pa·s): | 180 (rotor F - 5 revs) |
| Dry solids content (%): | 63 |
| Inflammable: | no |
| Storage: | 12 months in its original packaging, protect from frost |
| Hazard classification according to EC 1999/45: | none. Before using refer to the "Safety instructions for preparation and application" paragraph and the information on the packaging and Safety Data Sheet |
| Customs class: | 2715 00 00 |
| APPLICATION DATA (+23°C - 50% R.H.) | |
| WATERPROOF FINISHING COAT ON HORIZONTAL SURFACES LAID TO FALLS | |
| First layer (primer) Mixing ratio: | dilute Plastimul Fiber with 45-50% of water |
| Drying time: | 3-6 hours |
| Second strengthened layer, 3 mm thick Mixing ratio: | neat Plastimul Fiber |
| Drying time: | approx. 3 days |
| Resistance to water: | approx. 3 days |
| Resistance to rain: | approx. 1 day |
| Minimum application temperature: | +5°C |
| FINAL PERFORMANCE | |
| Resistance to ageing: | excellent |
| Resistance to alkalis and diluted acids: | excellent |

Any cracks and imperfections in the substrate must be repaired with **Planitop 400** or with a product from the **Mapegrout** range. Horizontal surfaces (such as terraces) must have at least a 1% slope so that water flows towards the guttering or drain. The temperature of the substrate must be at least +5°C.

According to the type of application carried out, **Plastimul Fiber** may be used either neat or diluted with water.

Read the application instructions below carefully.

WATERPROOFING FINISHING COAT ON VERTICAL WALLS

(e.g. foundations and supporting walls)
Dampen the surface to be treated, and apply two layers at least 1 mm thick of neat **Plastimul Fiber** with a trowel or a flat brush.

WATERPROOFING FINISHING COAT ON HORIZONTAL SURFACES LAID TO FALLS

Dampen the surface to be waterproofed, and apply two layers of **Plastimul Fiber**. Apply an initial 2 mm thick layer of neat **Plastimul Fiber** with a trowel and insert or low-density non-woven fabric in the layer while it is still fresh, to improve the tensile strength of the product. The strengthening material is required especially if there are cracks in the substrate. Apply a second 1 mm-thick layer of neat **Plastimul Fiber**, and sprinkle on a layer of fine sand with a grain size of up to 1 mm. Once completely dried, the waterproofing layer of **Plastimul Fiber** may be put into service.

Cleaning

We recommend cleaning tools with water before the **Plastimul Fibre** sets. Once hardened, cleaning must be carried out using mechanical means.

CONSUMPTION

Waterproofing dressing on vertical walls: approximately 1 kg/m² per mm of thickness.

PACKAGING

Plastimul Fiber is available in 12 kg tubs and 30 kg drums.

STORAGE

Plastimul Fiber may be stored for up to 24 months in a dry place at a temperature of at least +5°C.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Plastimul Fiber is not considered hazardous according to current standards regarding the classification of preparations. However, we recommend taking the usual precautions for handling chemical products.

The Safety Data Sheet is available upon request for professional users.

PRODUCT FOR PROFESSIONAL USE ONLY.

WARNING

While the indications and guidelines contained in this technical data sheet correspond to the company's knowledge and wide experience, they must be considered, under all circumstances, merely as an indication and subject to confirmation only after long-term, practical applications. Therefore, anybody who undertakes to use this product, must ensure beforehand that it is suitable for the intended application and, in all cases, the user is to be held responsible for any consequences deriving from its use.

All relevant references for the product are available upon request and from www.mapei.com

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