

Plastimul

All-purpose bituminous waterproofing emulsion



WHERE TO USE

- Waterproofing foundations.
- Waterproofing bearing walls.

Some application examples

- Cold waterproofing masonry, or concrete poured over bare ground.
- Waterproofing concrete tanks, cisterns or sump pits for storing water, including slightly acidic or alkaline water.
- Waterproofing protection of concrete gutters and chimneys.
- Waterproofing flat or arched roofs and terraces not subject to foot traffic.

TECHNICAL CHARACTERISTICS

Plastimul is a solvent-free paste consisting of selected water-emulsified bitumens, special fine-graded aggregates and additives, manufactured according to a formula developed in the MAPEI Research Laboratories.

Plastimul's thixotropic consistency makes it easy to use for waterproofing even vertical and sloping surfaces.

It can also be used to protect masonry or concrete structures even when their surfaces are still damp, due to insufficient curing or due to humidity given off by the atmosphere.

When completely dry **Plastimul** forms a waterproof plastic coating that is resistant to re-emulsifying after

prolonged immersion in water, even when slightly acid or alkaline, and resistant to aggressive agents present in the soil.

RECOMMENDATIONS

- Do not use **Plastimul** at temperatures below +5°C or on frozen surfaces.
- Do not use **Plastimul** when rain is imminent.
- Do not dilute **Plastimul** with organic solvents.
- Do not use **Plastimul** on surfaces designed for food preparation.
- Do not use **Plastimul** to waterproof surfaces in contact with organic solvents, or animal, vegetable, or mineral oils.

APPLICATION PROCEDURE

Substrate preparation

Before applying **Plastimul**, surfaces must be free of the cement laitance that is always present on formwork concrete, as well as any residues of oil or grease from formwork release agents.

The surface of the concrete or rendering must also be free of excess material and aggregate. Cracks must be sealed and defects present on the substrate must be repaired with **Planitop 400** or with **Mapegrout** range products.

Horizontal surfaces (i.e. terraces) must have a slope no less than 1% to facilitate the flow of water into the gutters.

| TECHNICAL DATA (typical values) | |
|---|---|
| PRODUCT IDENTITY | |
| Consistency: | thick paste |
| Colour: | black |
| Density (g/cm³): | 1.20 |
| pH: | 10 |
| Brookfield viscosity (mPa·s): | 250,000 (D shaft - 2.5 rev) |
| Dry solids content: | 75 |
| Inflammability: | no |
| Storage: | 24 months in 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 |
| WATERPROOFING HORIZONTAL SURFACES NOT SUBJECT TO TRAFFIC | |
| First layer (primer) Mix ratio: | dilute Plastimul 45 to 50% with water |
| Drying time: | 3 to 6 hours |
| Second layer with reinforcing, thickness 3 mm Mix ratio: | Plastimul full strength |
| Minimum application temperature: | +5°C |
| FINAL PERFORMANCE DATA | |
| Resistance to ageing: | excellent |
| Resistance to diluted acids and alkalis: | excellent |
| Resistance to sprayed water at +23°C: | 6 hours after application |

The substrate and ambient temperature must not be lower than +5°C.

Plastimul may be full strength or diluted with water, depending on the application.

Carefully read the application procedures described below.

WATERPROOFING VERTICAL SURFACES

(e.g. foundations or bearing walls)

Moisten the surface to be treated, then apply **Plastimul** in two layers, as follows:

- *First layer (priming)*

Dilute the **Plastimul** 45 to 50% with water and mix until completely homogeneous. Apply the solution with a brush.

The second layer can be applied when the first is completely dry (3 to 6 hours, depending on the temperature and the ventilation).

- *Second layer*

Apply **Plastimul** neat with trowel or brush in a thickness of approx. 1 mm.

WATERPROOFING HORIZONTAL SURFACES NOT SUBJECT TO TRAFFIC

Moisten the surface to be waterproofed, then apply **Plastimul** in two coats, as follows:

- *First layer (priming)*

Dilute the **Plastimul** 45 to 50% with water and mix until completely homogeneous. Apply the bituminous solution with a brush. The second layer can be applied when the first is completely dry (3 to 6 hours).

- *Second layer*

Brush on first coat of **Plastimul** neat of approx. 2 mm thick. Whilst it is still fresh, insert a fibreglass or lightweight non-woven mesh into it to enhance the tensile strength of the product.

The reinforcing is especially recommended if there are cracks in the substrate.

Then apply a second coat of **Plastimul** neat in a thickness of approx. 1 mm and sprinkle fine graded sand (0 to 1 mm) over the wet surface.

When completely dry, the waterproofing layer can be walked on for servicing or maintenance purposes.

Cleaning

Tools can be cleaned with water while the **Plastimul** is still fresh. When hardened, it can only be removed by mechanical means.

CONSUMPTION

Waterproofing of vertical walls: approx. 1 kg per m².

PACKAGING

Plastimul is available in 20 and 8 kg buckets.

STORAGE

Plastimul must be stored in a dry place at a temperature lower than +5°C for a maximum period of 24 months.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Plastimul is not considered as dangerous according to the European regulation regarding the classification of preparations. It is however recommended to use gloves, eyes protection and to take the usual precaution taken when handling chemical products are recommended. The Safety Data Sheet is available upon request for professional users.

PRODUCT FOR PROFESSIONAL USE.

WARNING

Although the technical details and recommendations contained in this 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 applications; 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.

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

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