



# Plastimul MY

**All-purpose, bituminous emulsion coating**



## WHERE TO USE

Damp-proofing and protective coating of concrete foundation structures and roof slabs and gutters.

### Some application examples

- Pilecaps, ground beams, retaining walls and abutments.
- Sumps and lift pits.
- Concrete roofs and gutters.
- Moisture barrier for block-works prior to cladding.
- Priming of concrete substrates for installation of bituminous torch-applied membranes.

## TECHNICAL CHARACTERISTICS

**Plastimul MY** is a water-emulsified, thixotropic, bituminous coating which dries to form a flexible, plastic membrane that is resistant to re-emulsification.

**Plastimul MY**'s thixotropic consistency makes it easy to use even on vertical and sloping surfaces. It can be used to protect masonry or concrete structures even when the surfaces are still damp due to incomplete curing or humidity in the atmosphere.

**Plastimul MY** is resistant to aggressive agents present in the soil and to mild acids and alkalis.

## RECOMMENDATIONS

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

## APPLICATION PROCEDURE

### Substrate Preparation

Before applying **Plastimul MY**, surfaces must be free of cement laitance 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 sharp protrusions. Cracks must be sealed and defects present on the substrate must be repaired with the **Planitop** or **Mapegrout** range of mortars.

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

TECHNICAL DATA (Typical values)	
<b>PRODUCT IDENTITY</b>	
Consistency:	pasty liquid
Colour:	brownish black
Density (g/cm <sup>3</sup> ):	~ 1.0
Solids content (%):	~ 40
<b>APPLICATION DATA</b>	
Priming layer dilution ratio:	dilute <b>Plastimul MY</b> with 20-30% water. (When used as primer on concrete substrates prior to installation of torch-on membranes, dilute with 50% water)
Dosage (litres/m <sup>2</sup> ):	0.3-1.0 (neat)
Waiting time between coats, 35°C (hours):	3 to 6
Waiting time to installation of protective cover, 35°C (hours):	24
Application temperature (°C):	min. +5, max. +40
<b>FINAL PERFORMANCES</b>	
Resistance to ageing (protected from UV):	excellent
Resistance to dilute acids and alkalis:	excellent

Carefully read the application procedures described below.

## **BASEMENT WALLS AND FOUNDATION STRUCTURES**

Apply **Plastimul MY** as follows:

- **Priming Coat**  
Dilute the **Plastimul MY** 20-30% with water and mix until completely homogeneous. Apply with a brush or roller. Wait until touch dry before applying the top coats (after 3 to 6 hours, depending on the temperature and ventilation conditions).

- **Top Coats (2-3 coats)**  
Apply 2-3 coats of **Plastimul MY** neat with a trowel, brush or airless spray at a dosage of 0.3 to 1.0 litre per m<sup>2</sup> per coat (depending on surface roughness). Observe waiting times between coats (3-6 hours to touch dry). Apply succeeding coats in a cross-direction to previous coats.

Allow curing for at least 24 hours before installing polystyrene boards or polyethylene sheets of minimum 0.15mm thickness to prevent mechanical damage to the applied coatings in the period prior to and during backfilling.

## **ROOF SLABS AND GUTTERS**

Apply **Plastimul MY** as follows:

- **Priming Coat**  
Dilute the **Plastimul MY** 20-30% with water and mix until completely homogeneous. Apply with a brush or roller. Wait until touch dry before applying the top coats (after 3 to 6 hours, depending on the temperature and ventilation conditions).

- **Top Coats**  
Stir the contents to homogenise the emulsion. Do not dilute with water. Apply the first coat of **Plastimul MY** neat by trowel, brush, or airless spray at a dosage of approximately 0.3-1.0 litres per m<sup>2</sup>. While the material is still fresh, embed a geotextile fabric (17g/m<sup>2</sup>, 0.12mm) into it to enhance the tensile strength of the membrane.

Then apply the second and third coats of **Plastimul MY** neat at a dosage of approx. 0.3-1.0 litres per m<sup>2</sup> per coat. Observe waiting

times between coats (3-6 hours to touch dry). Apply succeeding coats in a cross-direction to previous coats.

Sprinkle fine graded sand (up to 1 mm) over the top coat while still fresh. When completely dry, the waterproofing layer can be walked on for servicing or maintenance purposes only. For permanent protection, over-lay with a 50mm cement-sand screed. (Do not leave the unprotected coating permanently exposed to UV or traffic.)

## **PRIMER FOR APPLICATION OF BITUMINOUS TORCH-ON MEMBRANES**

Prepare the primer by diluting **Plastimul MY** 1:1 with water and mixing until homogeneity is achieved. Apply with a brush or roller on the prepared concrete surface making sure all surfaces are covered. Install the torch-on membranes as soon as the priming coat is touch dry.

In the event the priming coat is left exposed for more than 48 hours, clean the surfaces and re-apply another layer of the primer.

## **Cleaning**

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

## **CONSUMPTION**

0.3-1.0 litres per m<sup>2</sup> per coat.

## **PACKAGING**

**Plastimul MY** is available in 20-litre pails and 200-ltr drums.

## **STORAGE**

**Plastimul MY** may be stored in its original unopened container away from heat and direct sunlight for a maximum period of 12 months.

## **SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION**

**Plastimul MY** irritates if it comes in contact with the eyes. In case of contact with the skin and eyes, immediately wash with plenty of water. It is recommended to use gloves, eye protection and to take the usual precautions when handling chemical products. For further and complete information about the safe use of our product please refer to our latest version of the Material Safety Data Sheet.

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.*

**Please refer to the current version of the Technical Data Sheet, available from our website [www.mapei.com](http://www.mapei.com)**

**All relevant references for the product are available upon request and from [www.mapei.com.my](http://www.mapei.com.my)**



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