



Plastimul RBE MY

One-component, water-based, bituminous emulsion enhanced with rubber granules



WHERE TO USE

Waterproofing, damp-proofing and protection of concrete foundation structures, basement walls and roof slabs and gutters.

Some application examples

- Pilecaps, ground beams, retaining walls and abutments.
- Sumps and lift pits
- Concrete roofs and gutters.
- Concrete tanks, cisterns or sump pits for storing non-potable water, including slightly acidic or alkaline water.

TECHNICAL CHARACTERISTICS

Plastimul RBE MY is a water-emulsified, thixotropic, bituminous coating enhanced with rubber granules to form an elastic and highly flexible membrane when cured.

Plastimul RBE MY's thixotropic consistency makes it easy to use even on vertical and sloping surfaces. It can also 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 RBE MY is resistant to aggressive agents present in the soil and to mild acids and alkalis.

RECOMMENDATIONS

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

APPLICATION PROCEDURE

Substrate Preparation

Before applying **Plastimul RBE 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 (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:	Pasty emulsion
Colour:	Brownish black
Density (g/cm³):	~ 1.0
Solids Content (%):	~ 60
Storage:	12 months in its original, unopened packaging away from heat and direct sunlight

APPLICATION DATA

Priming layer dilution ratio:	Dilute Plastimul RBE MY with 20-30% water
Dosage, waterproofing & protective coatings (litres/m² per coat):	0.3-0.8 (neat)
Waiting time between coats, 35°C (hours):	3 to 6
Waiting time to installation of protective cover, 35°C (hours):	48
Application temperature (°C):	min. +5, max. +40

FINAL PERFORMANCES

Elongation (ASTM D412)(%):	> 30
Adhesion Strength (BS 1881)(N/mm²):	> 0.75
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 RBE MY** as follows:

- **Priming Coat**
Dilute the **Plastimul RBE 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 RBE MY** neat with a trowel, brush or airless spray at a dosage of 0.3 to 0.8 litre per m² 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 RBE MY** as follows:

- **Priming Coat**
Dilute the **Plastimul RBE 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 RBE MY** neat by trowel, brush, or airless spray at a dosage of approximately 0.3-0.8 litres per m². While the material is still fresh, embed a geotextile fabric (17g/m², 0.12mm) into it to enhance the tensile strength of the membrane.

Then apply the second and third coats of **Plastimul RBE MY** neat at a dosage of approx. 0.3-0.8 litres per m² 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 (0 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 coating permanently exposed to UV or traffic.

Cleaning

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

CONSUMPTION

0.3-0.8 litres per m² per coat.

PACKAGING

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

STORAGE

Plastimul RBE 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 RBE MY 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.my

**Plastimul
RBE MY**



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