

PLASTIMUL RBE MY

One component, water-based bituminous emulsion based coating enhance with rubberized polymer

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 rubberized polymer to form an elastic and highly flexible membrane when cured. The thixotropic consistency of **Plastimul RBE MY** 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

Preparation of the substrate

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 **Mapegrout**

range of mortars, such as **Mapegrout Patch 218**. Horizontal surfaces (i.e. terraces) must have a slope not less than 1% to facilitate the flow of water into the gutters.

Application of the product

Basement Walls and Foundation Structures

Apply **Plastimul RBE MY** as follows:

▪ Priming Coat

- Dilute **Plastimul RBE MY** with 20 - 30% of water and mix it until completely homogeneous. Apply with a brush or roller. Wait until touch dry before applying the top coats.

▪ Top Coats

- Apply 3 neat coats of **Plastimul RBE MY** with a roller, brush or airless spray at a dosage of 0.5 - 0.6 litres/m² per coat (depending on the 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 protective drainage layer 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 **Plastimul RBE MY** with 20 - 30% of water and mix it until completely homogeneous. Apply with a brush or roller. Wait until touch dry before applying the top coats (after 3 - 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 0.5 - 0.6 litres per m². While the material is still fresh, embed a **MAPETEX CSM 150** into it to enhance the tensile strength of the membrane.
- Then apply the second and third neat coats of **Plastimul RBE MY** at a dosage of approx. 0.5 - 0.6 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. For protection, over-lay with a cement-sand screed and do not leave the coating permanently exposed to UV or traffic.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

Consistency:	pasty emulsion
Colour:	brownish black
Density:	~ 1.0 g/cm ³
Solids content:	~ 50%

APPLICATION DATA

Priming layer dilution ratio:	dilute Plastimul RBE MY with 20 – 30% water
Dosage, waterproofing & protective coatings:	0.5 – 0.6 litres/m ² per coat x 3 coats
Waiting time between coats, 35°C:	3 – 6 hours
Waiting time for installation of protective cover, 35°C:	24 hours
Application temperature:	min. +5°C, max. +40°C

FINAL PERFORMANCES

Hydrostatic Pressure Resistance test for 1 hour:	no water leaking was observed on the samples when applied the maximum water pressure 90 psi or 620 kPa
Resistance to water:	no loss of adhesion or re-emulsification occurs
Resistance to ageing (protected from UV):	excellent
Resistance to dilute acids and alkalis:	excellent

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

0.5 - 0.6 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

Instructions for the safe use of our products can be found on the latest version of the Safety Data Sheet, available from our website www.mapei.com.my

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.my


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