

MapeWrap Primer 1

Epoxy primer specific for the MapeWrap system



WHERE TO USE

Preparing concrete, reinforced concrete or masonry surfaces, a necessary procedure for bonding **MapeWrap** fabrics.

TECHNICAL CHARACTERISTICS

MapeWrap Primer 1 is a solvent-free epoxy resin based product made up of two pre-dosed components (that must be mixed together before use) developed in the MAPEI research laboratories.

After mixing, **MapeWrap Primer 1** becomes a low viscosity fluid, easy to apply also vertically and very suitable for consolidating and priming substrates.

RECOMMENDATIONS

- **MapeWrap Primer 1** must not be used for contraction joints between fresh and old concrete (use **Eporip**).
- **MapeWrap Primer 1** must not be used on wet surfaces.
- **MapeWrap Primer 1** must not be used on dirty or crumbly surfaces.

APPLICATION PROCEDURE

Preparing the substrate

The surface on which **MapeWrap Primer 1** will be applied must be perfectly clean, dry and mechanically sound.

Remove from sound structures traces of form release oils, varnishes or paints and cement laitance by sandblasting.

If the concrete is deteriorated, remove damaged parts by manual or pneumatic bushhammering or by hydro-scarifying. Clean metal reinforcements and remove any traces of rust. Protect them with **Mapefer**, a two-component corrosion-inhibiting cement mortar or **Mapefer 1K**, single component corrosion-inhibiting cement mortar (follow application methods described in the product's technical data sheet). Repair the concrete surfaces with products from the **Mapegrout** line.

Wait at least three weeks before applying **MapeWrap Primer 1**.

If strengthening must be carried out immediately, repair with **Adesilex PG1** or **Mapefloor EP19**.

Seal any cracks by injecting **Epojet** (suitable if the cracks are dry or slightly moist) or with **Foamjet T** or **Foamjet F** (suitable if the cracks are wet or with water infiltrations) or with **Mapegel 50** (three-component hydrophile gel).

Before applying **MapeWrap Primer 1**, all sharp edges in the concrete elements (for example beams or columns) that need to be wrapped with **MapeWrap** must be rounded with a demolition hammer or any

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Preparing the substrate



Applying a first coat of MapeWrap Primer 1



Applying a second coat of MapeWrap Primer 1

other suitable means. It is recommended that the bending radius be not less than 2 cm.

Preparing the mix

Mix together the two MapeWrap Primer 1 components. Pour Part B into Part A and mix with a drill fitted with a stirrer until the resin is completely homogeneous. The mix ratio: 3 parts by weight of A and 1 part by weight of B. Use the whole amount in the packaging so as not to make dosage errors.

Applying the mix

MapeWrap Primer 1 can be applied over concrete with a roller or a brush. The impregnation is usually carried out in a single coat. If the substrate is very porous, apply a second coat after the first coat has been completely absorbed. Once MapeWrap Primer 1 has been prepared, it remains workable for approximately 90 minutes at +23°C.

MapeWrap Primer 1 must be applied within its life-cycle, therefore timing is vital in order to use the whole pack within the given time.

Precautions to be observed before application

No special precautions need to be taken at temperatures between +10°C and +30°C. In hot weather do not expose the material to direct sunlight and priming should be carried out during the cooler hours.

During the winter, if applications need to be carried out outdoors at temperatures below +10°C, it is recommended to warm the substrate 24 hours before applying MapeWrap Primer 1, protect from frost, store the product before its use in heated areas.

Cleaning

Due to the strong adhesion of MapeWrap Primer 1 also on metal, it is recommended to wash the working tools with solvents (ethyl alcohol, toluol, etc.) before the product dries.

CONSUMPTION

250-300 g/m².

PACKAGING

2 kg units (Part A = 1.5 kg, Part B = 0.5 kg).

STORAGE

The product must be stored in original

sealed packaging at temperatures not below +10°C.

SAFETY INSTRUCTIONS FOR THE PREPARATION AND APPLICATION

MapeWrap Primer 1 Part A is irritant in direct contact with the eyes and skin. Part B is a caustic and corrosive substance. After repeated and prolonged contact, sensitivity of the skin could be caused therefore always wear protective gloves and goggles while mixing and applying the two components.

In case of contact with the skin, wash with plenty of water and soap and if there should be any sensitivity of the skin, consult a doctor. In case of contact with the eyes, wash with running water and consult a doctor. Use in ventilated areas and avoid inhaling fumes, especially when mixing the two components.

MapeWrap Primer 1 comp. A is hazardous for aquatic organisms - do not dispose of the product to the environment. For further and complete information about a safety 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 product 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 application: 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 web site www.mapei.com

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

TECHNICAL DATA (typical values)**PRODUCT IDENTIFICATION**

	Part A	Part B
Consistency:	liquid	liquid
Colour:	transparent yellow	transparent yellow
Density (g/cm³):	1.12	1
Brookfield viscosity (mPa·s):	350 (shaft 1 - rev. 5)	50 (shaft 1 - rev. 5)
Storage:	24 months in original sealed packaging at temperatures between +10°C and +30°C	
Hazard classification according to EC 1999/45:	irritant, hazardous to the environment Before using the product, consult the “Safety instructions” paragraph and the information described on the packaging and safety data sheet	corrosive
Customs class:	3907 30 00	

APPLICATION DATA

Mix ratio:	Part A : Part B = 3 : 1
Mix consistency:	liquid
Colour of mix:	transparent yellow
Specific gravity of the mix (g/cm³):	1.1
Density of the mix (mPa·s):	300 (shaft 1 - rev. 10)
Workability: - at +10°C: - at +23°C: - at +30°C:	120' 90' 60'
Setting time: - at +10°C: - at +23°C: - at +30°C:	5-6 h 3-4 h 2-3 h
Application temperature:	from +10°C to +30°C
Complete curing:	7 days
Adhesion to concrete (N/mm²):	>3 (after 7 days at +23°C - concrete failure)

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