MAPEWRAP PRIMER 1

Two-component epoxy primer specifically formulated 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 **Adesilex PG2**.

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).
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 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 component B into component A and mix with a drill fitted with a stirrer until the resin is completely homogeneous.
The mix ratio: 3 components by weight of A and 1 component 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/m^2.

PACKAGING

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

STORAGE

The product must be stored for 24 months in original sealed packaging at temperatures not below +5°C.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

When the product reacts it generates considerable heat. After mixing parts A and B, we recommend applying the product as soon as possible and never leaving the container unattended until it is completely empty.

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.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

	Component A	Component 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)

APPLICATION DATA

Mix ratio:	Component A : Component B = 3 : 1
Consistency of the mix:	liquid
Colour of mix:	transparent yellow
Density of the mix (g/cm³):	1.1
Brookfield Viscosity (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)



Preparing the substrate



Applying a first coat of MapeWrap Primer 1



Applying a second coat of MapeWrap Primer 1

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 website www.mapei.com

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation.

The most up-to-date TDS can be downloaded from our website www.mapei.com.

ANY ALTERATION TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.

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