

# PRIMER EP 100W

Two-component solvent-free water-based epoxy primer for non-absorbent substrates



## WHERE TO USE

**Primer EP 100W** is used for treating non-absorbent surfaces, such as metal, before applying membranes from the **Purtop** range.

## TECHNICAL CHARACTERISTICS

**Primer EP 100W** is a two-component, solvent-free, water-based epoxy primer according to a formula developed in the MAPEI R&D Laboratories.

## RECOMMENDATIONS

- Do not apply **Primer EP 100W** on wet surfaces.
- Do not apply **Primer EP 100W** on substrates with oil or grease stains or stains in general. Substrates must always be prepared as specified.

## APPLICATION PROCEDURE

### Substrate preparation

All substrates, whether new or old, must be sound, clean, dry and free of all traces of oil, grease, old paint and any other material which could affect adhesion of the primer.

Check the state of the metal substrate and dry sand-blast the surface to grade SA 2½ (according to Swedish Standards). If it is not possible to dry sand-blast the substrate, prepare the surface using an alternative method, such as with a rotary-action tool (with a steel brush or abrasive disk) or with a percussion-action tool (scrabblers, chisel or pin-head type cleaner).

### Preparation of the primer

Prepare **Primer EP 100W** with an electric mixer. To prepare the mix, blend the two components separately with an electric mixer at low-speed, pour the contents of component B into the container of component A and mix for a few minutes until they are thoroughly blended; make sure you only prepare an amount that can be used within the maximum workability time (approximately 60 minutes at +23°C).

**Primer EP 100W** may be diluted with up to 20% of water.

### Application of the primer

Apply at least two coats of **Primer EP 100W** (depending on the roughness of the substrate) with a roller, brush or airless spray.

### Cleaning tools

Tools used to mix and apply the product may be cleaned with cold water. Once hardened, it may only be removed mechanically from tools and mixers.

## CONSUMPTION

Approximately 0.15-0.3 kg/m<sup>2</sup> per coat, depending on the condition of the substrate.  
In general, the consumption rates below are for a seamless film on a flat surface and will be higher on uneven substrates.

## PACKAGING

Primer EP 100W is available in metal drums, comp A = 5 kg and comp. B = 15 kg.

## STORAGE

Primer EP 100W may be stored for 12 months in its original packaging in a dry area at a temperature of +5°C to +35°C.

## 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](http://www.mapei.com).  
PRODUCT FOR PROFESSIONAL USE.

|  |                            |                            |
|--|----------------------------|----------------------------|
| TECHNICAL DATA (typical values)        |                            |                            |
| PRODUCT IDENTITY                       |                            |                            |
|  | component A                | component B                |
| Consistency:                           | liquid                     | thick liquid               |
| Colour:                                | blue                       | brown                      |
| Density (g/cm³):                       | 1.1                        | 1.02                       |
| Brookfield viscosity at +23°C (mPa·s): | 1000<br>(rotor 3 - RPM 20) | 4000<br>(rotor 4 - RPM 20) |
| APPLICATION DATA (at +23°C - 50% R.H.) |                            |                            |
| Colour of mix:                         | beige                      |                            |
| Mixing ratio:                          | comp. A : comp. B = 1 : 3  |                            |
| Density of mix (g/cm³):                | 1.02                       |                            |
| Dry solids content (%):                | 55                         |                            |
| Brookfield viscosity of mix (mPa·s):   | 12,000 (rotor 6 - 20 RPM)  |                            |
| Pot-life of mix (mins.):               | approx. 90                 |                            |
| Application temperature:               | +5°C to +35°C              |                            |
| Dust dry (h):                          | 2-3                        |                            |
| Complete hardening (days):             | 7                          |                            |
| Set to foot traffic (h):               | 5-6                        |                            |
| FINAL PERFORMANCE                      |                            |                            |

|  |     |
|--|-----|
| Adhesion to concrete (EN 1542) (N/mm <sup>2</sup> ): | > 3 |
|--|-----|

## 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](http://www.mapei.com)**

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