PRIMER EP RUSTOP

Epoxy primer for metal surfaces



DESCRIPTION

Primer EP Rustop is a two-component epoxy primer, containing special zinc phosphate-based fillers, for steel and metal surfaces in general, according to a formulation developed in the MAPEI R&D laboratories.

TECHNICAL CHARACTERISTICS

- excellent anti-corrosion properties;
- excellent adhesion on metal surfaces in general;
- can also adhere to old paints, provided they are clean and in good conditions.

ADVANTAGES

- effectively protects treated steel structures;
- compatible with epoxy and polyurethane resins from the **Mapefloor** and **Mapecoat** ranges;
- excellent hiding power;
- applicable on both horizontal and vertical surfaces.

WHERE TO USE

Primer EP Rustop is used as an anti-corrosion primer on the surfaces of internal and external steel structures, before applying an additional coating based on epoxy or polyurethane resins from the **Mapefloor** or **Mapecoat** ranges. **Primer EP Rustop** can also be applied on various types of metal surfaces such as galvanized steel, stainless steel, copper, aluminium, light alloys, etc. or on old paint in repainting or maintenance operations, after careful evaluation of the conditions of the same and adequate preparation.
Primer EP Rustop can be used on metal structures such as:

- facade panels;
- sewage and dirty water collection tanks;
- manholes, corrugated sheets, metal sheets in general, etc.;
- pillars and beams;
- roofs in general, gutters, downspouts, etc.;
- railings, gates, mezzanines, etc.

RECOMMENDATIONS

- do not apply **Primer EP Rustop** on oxidized or rusty surfaces;

- do not apply **Primer EP Rustop** dirty, greasy, dusty surfaces;
- do not apply **Primer EP Rustop** on old paints in bad conditions, not adhering to the substrate, flaking, weak, etc.;
- do not apply **Primer EP Rustop** on wet surfaces;
- do not mix partial quantities of the components to avoid mixing errors; the product may not harden correctly;
- do not expose the mixed product to sources of heat;
- protect the product from water for at least 24 hours after application;
- the temperature of the substrate must be at least 3°C higher than the dew-point temperature. The air relative humidity must be max. 80%.

APPLICATION PROCEDURE

Preparation of the substrate

The surfaces to be treated must be clean, sound, dry, free from dust, traces of rust or oxidation in general, oils, greases, etc. Any old paints must be sound, solid, compact, perfectly adhering to the substrate; on such substrates it is always essential to carry out a preliminary test to verify the compatibility and adhesion of **Primer EP Rustop**.
Steel surfaces must be sandblasted to Sa 2 ½.
Galvanized steel surfaces must be clean and degreased; if they have localized traces of rust or oxidation, this must be carefully removed by sandblasting or brushing. Surfaces of other metals should preferably be lightly sandblasted or brushed.
Substrates consisting of old paints must be cleaned and degreased, then carefully sanded.
Remove all dust on the surface of the substrate before applying the product.

Preparation of the product

Thoroughly stir the component A, then add all the content of the component B and mix with suitable low-speed electric mixer (300-400 rpm) for at least 3 minutes until a homogeneous mixture is achieved.
Depending on the temperature and the chosen application method, it is possible to add up to a maximum of 10% by weight of thinner for epoxy during mixing.
Pour the mixture into a clean container and briefly mix again.

Application of the product

Primer EP Rustop can be applied by brush, roller, or airless spray.
The product can be applied at a temperature between +10°C and +30°C. For optimal use of the material, however, it is recommended to apply it when it has a temperature of at least +20°C.
Primer EP Rustop can be overpainted with epoxy or polyurethane resin products within 24 hours from the application. After this time, it will be necessary to slightly roughen the surface of the primer by sanding or similar treatment.

CLEANING

Clean tools used to prepare and apply **Primer EP Rustop** with alcohol or thinner for epoxy immediately after use. Once hardened, the product may only be removed using mechanical means.

CONSUMPTION

0.2 kg/m².
Consumption may vary depending on the conditions of the substrate and the preparation and application methods.

PACKAGING

Component A = 3.85 kg.
Component B = 1.15 kg.

STORAGE

24 months in its original sealed packaging, in a dry place and at a temperature of between +5°C and +30°C. Protect from frost.
Sedimentation may occur during storage. If this occurs, the product should be properly mixed before use.

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.
PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY	component A	component B
Colour:	white	amber
Appereance:	liquid	liquid
Density (EN ISO 2811-1):	1.41 g/cm³	0.94 g/cm³
Viscosity Brookfield (EN ISO 2555) :	440 mPa·s (# 2 - rpm 50)	1,500 mPa·s (# 2 - rpm 20)

APPLICATION DATA (at +23°C and 50% R.H.)	
Mixing ratio:	component A : component B = 100 : 30
Colour of mix:	white
Consistency of the mix:	liquid
Dry solid content:	70%
Density of the mixture:	1,240 kg/m³
Viscosity of the mixture:	440 mPa·s (# 3 - rpm 50)
Pot life:	15-20 min. at +20°C
Surface temperature:	min. +10°C
Dust dry:	2 hours at +20°C

FINAL PERFORMANCE	
Full hardening:	24 hours

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.

TECHNICAL SPECIFICATIONS

Supply and installation of anti-corrosion two-component epoxy primer, containing special zinc phosphate-based fillers (such as **Primer EP Rustop** by MAPEI S.p.A.) for steel and metal surfaces and structures in general, applied by roller, brush, or airless spray to improve the adhesion of subsequent epoxy or polyurethane systems.

The product must have the following characteristics:

Dry solid content:	70%
Density of the mixture:	1,240 kg/m³
Viscosity of the mixture:	440 mPa·s (# 3 - rpm 50)
Pot-life:	15-20 min. at +20°C
Dust dry:	2 hours at +20°C
Full hardening:	24 hours

Mapei S.p.A.

Via Cafiero, 22, 20158, Milano

+39-02-376731 www.mapei.com mapei@mapei.it

2919-3-2025 en (IT)

Any reproduction of texts, photos and illustrations published here is prohibited and subject to prosecution