



# Primer SN

## Two-component epoxy pre-filled primer



### WHERE TO USE

**Primer SN** has been specifically developed to enhance the adhesion of epoxy and polyurethane resins used for the protection and the coating of industrial floors and concrete tiles.

### Some application examples

- To enhance bonding of products based on epoxy and polyurethane resins.
- To enhance bonding of self-levelling and/or multi-layer flooring systems.
- To enhance bonding of synthetic mortar flooring systems.
- Fluid enhance for sealing cracks and for structural bonds.

### TECHNICAL CHARACTERISTICS

**Primer SN** is a two-component epoxy resin-based pre-filled primer which is applied using a smooth metal trowel or rake, blended according to a formula developed in MAPEI's own Research & Development Laboratories.

**Primer SN** may be applied as is or, by adding **0.5 Quartz**, when applying levelling and smoothing compounds.

Thanks to its special composition, **Primer SN** is characterised by its high impregnating capacity into the substrate. It may also be applied on damp surfaces.

### RECOMMENDATIONS

Do not apply **Primer SN**:

- on dusty, greasy surfaces.

Apply **Primer SN**:

- homogeneously in a uniform thickness;
- with a smooth metal trowel or rake on mechanically prepared concrete substrates.

### APPLICATION PROCEDURE

#### Preparation of the substrate

The surfaces to be treated must be sound and compacted. They must also be dry, or with only low residual moisture which is not due to capillary-action rising damp or counter-pressure from the underlying water table.

Completely remove all loose materials, cement laitance, dust, paint, oil, form-release compounds and any other material from the surface that may impair the adhesion. Concrete with oil or grease impregnated in the surface must be thoroughly cleaned with a 10% water and soda solution or with detergent, and thoroughly rinsed a number of times with plenty of clean water. Vacuum off any excess water before applying **Primer SN** and wait until the level of residual humidity is no higher than 4%.

If the oil or grease has penetrated deeper down into the substrate, the contaminated concrete must be removed by scarifying. The substrate must then be repaired by applying **Mapecolor EP19** three-component epoxy mortar or with a cementitious mortar from the **Mapecolor** range.

TECHNICAL DATA (typical values)		
<b>PRODUCT DETAILS</b>		
	<b>component A</b>	<b>component B</b>
<b>Colour:</b>	neutral	straw-coloured
<b>Appearance:</b>	liquid	liquid
<b>Density (g/cm<sup>3</sup>):</b>	1.65	0.99
<b>Viscosity a +23°C (mPa·s):</b>	3,600	200
<b>Hazard classification according to Directive 1999/45/CE:</b>	irritant, hazardous for the environment	corrosive
	Before using refer to the "Safety instructions for the preparation and application" paragraph and the information on the packing and Safety Data Sheet	
<b>Shelf life:</b>	24 months in its original, unopened packaging	
<b>Customs class:</b>	3208 90 91	
<b>APPLICATION DATA (at +23°C and 50% R.H.)</b>		
<b>Mixing ratio:</b>	component A : component B = 80 : 20	
<b>Colour of mix:</b>	neutral	
<b>Consistency of the mix:</b>	dense fluid	
<b>Density of mix (kg/m<sup>3</sup>):</b>	1,500	
<b>Viscosity of the mix (mPa·s):</b>	1,200	
<b>Pot life:</b>	30 min.	
<b>Application temperature range:</b>	from +8°C to +35°C	
<b>FINAL PERFORMANCES</b>		
<b>Dust dry at +23°C and 50% R.H.:</b>	2-4 hours	
<b>Step-on time at +23°C and 50% R.H.:</b>	12 hours	
<b>Final setting time:</b>	7 days	

### Preparation of the product

**Primer SN** is a primer made up of two pre-dosed components. We recommend preparing the product as follows: pour component B into the container with component A, and carefully mix the two components together using a low-speed drill with a blending attachment until a homogenous mix is obtained. If required, 1 part of **Primer SN** may be mixed with up to 0.5 parts of **0.5 Quartz**, depending on the temperature, in order to smooth out lightly rough surfaces in a single coat.

### Application of the product

**Primer SN** is applied homogeneously using a smooth, metallic trowel or rake on a surface which has been prepared correctly. Immediately after application, the fresh surface of **Primer SN** must be sprinkled with **1.2 Quartz** for applications with **Ultratop** or with **0.5 Quartz** for applications with resins. This is necessary to guarantee perfect bonding of successive resin dressing coats.

### Cleaning

Tools and equipment used to prepare and apply **Primer SN** must be cleaned with ethanol immediately after use. Once it has set, the product may only be removed mechanically.

### CONSUMPTION

0.3-0.6 kg/m<sup>2</sup> per coat, according to the characteristics of the substrate.

### PACKAGING

20 kg packs:  
component A = 16 kg;  
component B = 4 kg.

### STORAGE

The product must be stored in its original packaging in a dry place, and at a temperature of at least +5°C.

### SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Component A of **Primer SN** irritates if it comes into contact with the eyes or skin.

Component B contains corrosive substances which are harmful if inhaled or swallowed. After lengthy or repeated contact, the skin may become sensitive to the product. Therefore, always use protective gloves and goggles when mixing and applying the product to avoid the product coming into contact with the skin and eyes. If it comes into contact with the skin, wash thoroughly with plenty of soap and water and, if a rash appears, seek medical advice. If the product comes into contact with the eyes, rinse off well with running water and seek medical advice. If the product is applied in closed spaces, make sure that they are well ventilated.

**Primer SN** is a hazard for aquatic organisms - avoid release 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

*While the indications and guidelines contained in this data sheet correspond to the company's knowledge and wide experience, they must be considered, under all circumstances, merely as an indication and subject to confirmation only after long-term, practical applications. Therefore, anybody who undertakes to use this product, must ensure beforehand that it is suitable for the intended application and, in all cases, the user is to be held responsible for any consequences deriving from its use.*

Please refer to the current version of the **Technical Data Sheet**, available from our web site [www.mapei.com](http://www.mapei.com)

**All relevant references  
for the product are available  
upon request and from  
[www.mapei.com](http://www.mapei.com)**



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