



# Mapecofloor I 300 SL

**Two-component,  
multi-purpose,  
neutral-coloured epoxy  
treatment for industrial  
floors, applied at  
thicknesses up to 4 mm**



## WHERE TO USE

**Mapecofloor I 300 SL** is a two-component epoxy treatment suitable for creating self-levelling and/or multi-layered resin dressings and/or as varnish with an attractive smooth or non-slip surface finish.

### Some application examples

Dressing floors:

- in the chemical processing and pharmaceutical industries;
- in the food manufacturing industry;
- in laboratories, sterile rooms and hospitals;
- in aseptic areas;
- in automated warehouses;
- in shopping centres.

## TECHNICAL CHARACTERISTICS

**Mapecofloor I 300 SL** is a two-component, epoxy resin-based filler treatment without solvents and nonyl phenol, made according to a special formula developed in Mapei's own research laboratories.

**Mapecofloor I 300 SL** is versatile and may be applied at thicknesses up to 4 mm.

**Mapecofloor I 300 SL** is safe for the environment and, since it does not contain solvents or nonyl phenol, is particularly suitable for the food processing industry. After application, the surfaces are single-spread, flat and have an attractive finish.

**Mapecofloor I 300 SL** is strong, resistant to chemicals and abrasion and may be used for both self-levelling systems and multi-layered systems.

## RECOMMENDATIONS

- Do not apply **Mapecofloor I 300 SL** on substrates which are either damp or subject to capillary action (consult our Technical Assistance).
- Do not dilute **Mapecofloor I 300 SL** with solvents or water.
- Do not use **Mapecofloor I 300 SL** for outdoor applications.
- Do not apply **Mapecofloor I 300 SL** on dusty or crumbly substrates.
- Do not apply **Mapecofloor I 300 SL** on substrates which have traces of oil, grease and dirt in general.
- Do not apply **Mapecofloor I 300 SL** on substrates which have not been prepared correctly or treated beforehand with **Primer SN**.
- Do not mix partial quantities of the components, in order to avoid mistakes in the blending ratios. The product may not set correctly.
- Once blended, do not expose the product to sources of heat.

## APPLICATION PROCEDURE

### Preparation of the substrate

The surfaces to be treated must be smooth, clean and dry and must not be subject to capillary action. The screed or the substrate must be strong enough to withstand the loads foreseen when in service.

Cement laitance present on the surface to be treated must be eliminated mechanically. Any cracks present in the surface must be repaired by using **Eporip**. Deteriorated areas of the concrete must be repaired with either **Mapefloor EP19** or a cementitious mortar from the **Mapegrout** range. Before applying **Mapefloor I 300 SL**, any dust present on the substrate must be completely removed.

## Application of Primer SN

**Primer SN** may be used neat or mixed with **0.5 Quartz**, and is applied homogeneously using a smooth spreader or rake on a surface which has been prepared correctly. Immediately after application, the fresh surface of **Primer SN** must be sprinkled with **0.5 Quartz** to guarantee perfect bonding of the successive resin dressing coats.

## Preparation of the product

The two components which make up **Mapefloor I 300 SL** must be mixed together. Pour component B (catalyst) into component A (resin), add the colorant paste (**Mapecolor Paste**) and mix with a low-speed drill to avoid air entrapment (0.700 kg of **Mapecolor Paste** is required for each 8 kg mix of **Mapefloor I 300 SL**). Continue mixing for a few minutes until a lump-free, homogenous mix is obtained.

## Application of the product

**Mapefloor I 300 SL** may be used as a non-slip dressing (from 0.8 to 3.5 mm) and as a self-levelling layer (from 2 to 4 mm). The product is applied as follows:

### 1. 1 mm-thick multi-layered non-slip dressing (Mapefloor System 31)

- Prepare the substrate by shot-blasting, followed by removal of the dust with a vacuum cleaner.
- Apply one part of **Primer SN** mixed with 0.4 parts of **0.5 Quartz** with a smooth trowel and, while still fresh, sprinkle on the same grade of sand until the primer is completely saturated.
- When the **Primer SN** has hardened, remove the excess sand with a heavy-duty vacuum cleaner, mix components A and B of **Mapefloor I 300 SL** together with the recommended quantity of **Mapecolor Paste** colorant, and apply the mix with a medium-haired roller, making sure that the roll strokes criss-cross over each other to obtain a defect-free surface.

### 2. 2 mm-thick smooth self-levelling layer (Mapefloor System 33)

- Prepare the substrate by shot-blasting, followed by removal of the dust with a vacuum cleaner.
- Apply one part of **Primer SN** mixed with 0.4 parts of **0.5 Quartz** with a smooth trowel and, while still fresh, sprinkle on the same grade of sand (approx. 0.5 kg/m<sup>2</sup>).
- When the **Primer SN** has hardened, remove any remaining loose sand and blend the pre-prepared **Mapefloor I 300 SL** with a further addition of **0.25 Quartz** at a ratio of up to 1:1 depending on the ambient temperature, and continue mixing until a homogenous paste is obtained. Pour the **Mapefloor I 300 SL** mix on the floor and spread it out evenly and homogeneously using a V-toothed serrated trowel.

- Pass over the surface while still fresh with a bubble breaker to even out the thickness and to help completely eliminate any air entrapped in the product.

### 3. 3 mm-thick multi-layered non-slip dressing (Mapefloor System 32)

- Prepare the substrate by shot-blasting, followed by removal of the dust with a vacuum cleaner.
- Apply **Primer SN** mixed with 0.4 parts of **0.5 Quartz** with a smooth trowel and, while still fresh, sprinkle on the same grade of sand until the primer is completely saturated.
- When the **Primer SN** has hardened, remove any loose sand with a heavy-duty vacuum cleaner and blend the pre-prepared **Mapefloor I 300 SL** with a further addition of **0.5 Quartz** at a ratio of 1: 0.5, and continue mixing until a homogenous paste is obtained. Pour the **Mapefloor I 300 SL** on the floor and spread it out evenly and homogeneously using a smooth spreader.
- Sprinkle **0.5 Quartz** on the surface of the **Mapefloor I 300 SL** until it is completely saturated.
- When the product has solidified, remove the excess sand, sand down the surface and remove the dust with a heavy-duty vacuum cleaner.
- Apply the finishing layer of neat **Mapefloor I 300 SL** with a smooth spreader or rake and pass over the surface with a short-haired roller, making sure that the roll strokes criss-cross over each other to obtain a defect-free surface.

**N.B.:** the examples described above are for indication purposes only.

The amount of **Primer SN** required may vary depending on the ambient temperature.

At low temperatures, the amount required may be less, while at higher temperatures, the amount required may increase.

## CONSUMPTION

### 1. As a 1 mm-thick multi-layered non-slip dressing (Mapefloor System 31)

- FIRST COAT:
 

<b>Primer SN</b>	0.700 kg/m <sup>2</sup>
Sprinkling on fresh <b>0.5 Quartz</b>	3.000 kg/m <sup>2</sup>
- FINISHING COAT
 

<b>Mapefloor I 300 SL</b>	0.600 kg/m <sup>2</sup>
---------------------------	-------------------------

### 2. As a 2 mm-thick smooth self-levelling layer (Mapefloor System 33)

- FIRST COAT:
 

<b>Primer SN</b>	0.700 kg/m <sup>2</sup>
Sprinkling on fresh <b>0.5 Quartz</b>	0.500 kg/m <sup>2</sup>
- FINISHING COAT
 

<b>Mapefloor I 300 SL</b> (Including <b>0.25 Quartz</b> )	4.000 kg/m <sup>2</sup>
--	-------------------------

### 3. As a 3 mm-thick multi-layered non-slip dressing (Mapefloor System 32)

- FIRST COAT:
 

<b>Primer SN</b>	0.700 kg/m <sup>2</sup>
Sprinkling on fresh <b>0.5 Quartz</b>	3.000 kg/m <sup>2</sup>
- INTERMEDIATE LAYER
 

<b>Mapefloor I 300 SL</b>	0.900 kg/m <sup>2</sup>
Sprinkling on fresh <b>0.5 Quartz</b>	3.000 kg/m <sup>2</sup>
- FINISHING COAT
 

<b>Mapefloor I 300 SL</b>	0.600 kg/m <sup>2</sup>
---------------------------	-------------------------

TECHNICAL DATA (typical values)		
PRODUCT DETAILS		
	component A	component B
Colour:	neutral	straw-coloured
Appearance:	liquid	liquid
Density (g/cm³):	1.5	1.0
Viscosity at 23°C (mPa·s):	2150	300
Hazard classification according to EC 99/45:	irritant, dangerous for the environment Before using refer to the “Safety instructions for preparation and application” paragraph and the information on the packing and Safety Data Sheet	
Shelf life:	24 months in its original, unopened packaging	
Customs class:	3208 90 91	
APPLICATION DATA at +23°C and 50% R.H.		
Mixing ratio:	component A : component B: = 3 : 1	
Colour of mix:	neutral	
Consistency of the mix:	dense fluid	
Density of mix (kg/m³):	1,340	
Viscosity of the mix (mPa·s):	832	
Pot life at 20°C:	35 min	
Application temperature range:	from +8°C to +35°C	
FINAL PERFORMANCES		
Dust dry at 23°C and 50% R.H.:	2-4 hours	
Step-on time at 23°C and 50% R.H.:	24 h	
Final setting time:	7 days	
Taber Test after 7 days (at +23°C and 50% R.H., 1,000 cycles/1,000 revs, CS 17 disk) (mg):	70	

# Mapecoat I 300 SL

## Cleaning

Tools and equipment used to prepare and apply **Mapecoat I 300 SL** must be cleaned with ethanol immediately after use. Once it has set, the product may only be removed mechanically.

## PACKAGING

8 kg kits:  
component A = 6 kg; component B = 2 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 **Mapecoat I 300 SL** irritates if it comes into contact with the eyes or skin. Component B is corrosive and may cause burns, serious damage to the eyes and rashes in those who are allergic to such substances. Always use protective gloves and goggles when handling and using the products. Use in well ventilated areas and protect from vapours. If they come into contact with the skin or eyes, wash well with

water and seek medical attention.

Component A is also dangerous to aquatic life: do not dispose the product in the environment.

PRODUCT FOR PROFESSIONAL USE ONLY.

## 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.*

**All relevant references  
of the product are available  
upon request**



BUILDING THE FUTURE

## MAPEI GROUP CERTIFIED MANAGEMENT SYSTEMS (Quality, Environment and Safety)



MAPEI S.p.A. - ITALY



MAPEI FRANCE

RESCON MAPEI AS - NORWAY

www.mapei.com