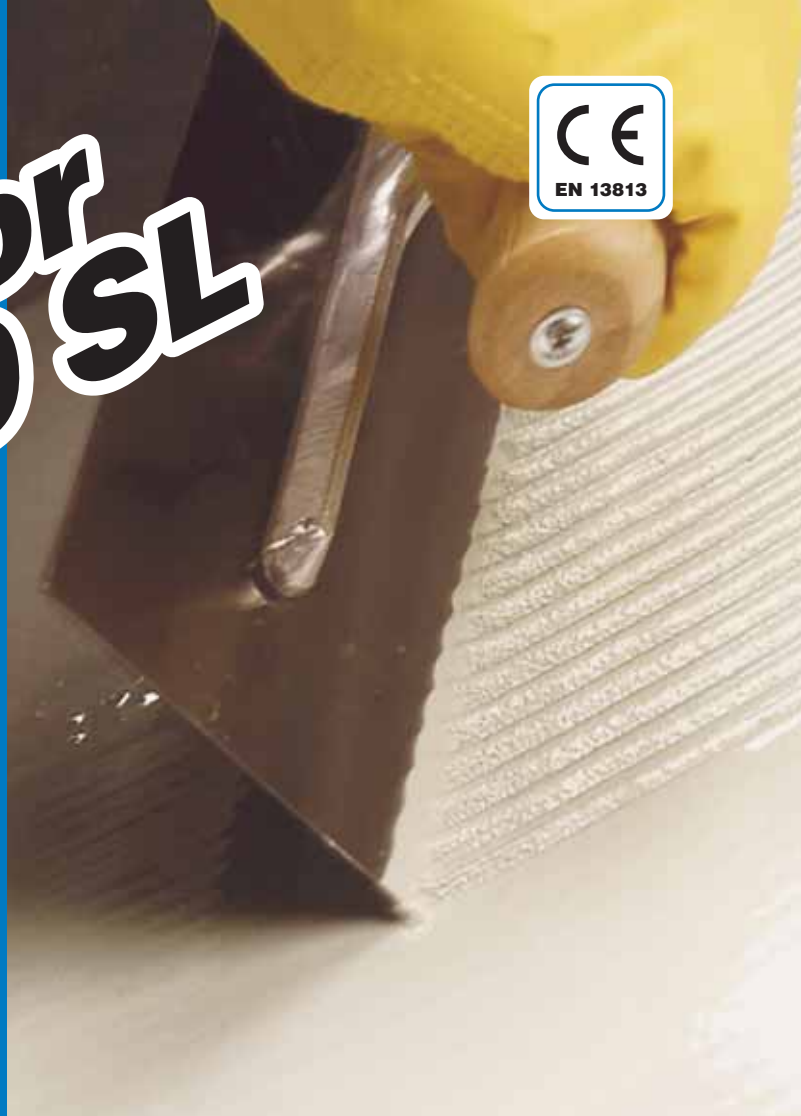


Mapecfloor I 350 SL

Two-component, multi-purpose, neutral-coloured epoxy formulate with “class 1” fire-resistance and “B_{fl} - s1” Euroclass for industrial floors up to a thickness of 4 mm



WHERE TO USE

Mapecfloor I 350 SL is a two-component fillerized epoxy formulate. It is “class 1” fire resistant, Euroclass “B_{fl} - s1” and is suitable for self-levelling and multi-layered resin flooring with an attractive smooth or non-slip finish.

Some application examples

- floors in the chemical and pharmaceutical industries.
- floors in the foodstuffs industry.
- laboratory floors in sterile rooms and hospitals.
- floors in aseptic rooms.
- floors in automatic warehouses.
- floors in shopping centres.

TECHNICAL CHARACTERISTICS

Mapecfloor I 350 SL is a two-component fillerized epoxy resin formulate according to a formula developed in MAPEI's R&D laboratories.

Mapecfloor I 350 SL is highly versatile and may be applied at a thickness from 1 to 4 mm.

Mapecfloor I 350 SL is particularly suitable for the foodstuffs industry. It forms continuous and flat surfaces with an attractive finish.

Mapecfloor I 350 SL forms a strong surface which is highly resistant to chemicals and abrasion. It may be used in a variety of systems, such as multi-layered and self-levelling floors.

Mapecfloor I 350 SL complies with the principles defined in EN 13813 “Screeds and materials for screeds – Materials for screeds – Properties and requirements”, which specifies the requirements for materials for screeds used in the construction of internal floors.

Screeds and structural products, such as those which help increase the load-bearing capacity of floors, are not included in this Standard.

Resin flooring and cementitious screeds are included in this specification. They must bear the CE symbol, as illustrated in attachment ZA.3 Tables ZA.1.5 and 3.3.

RECOMMENDATIONS

Do not apply **Mapecfloor I 350 SL**:

- on dusty, crumbly or loose surfaces;
- on damp or wet surfaces.

Apply **Mapecfloor I 350 SL**:

- in an even coat with a uniform thickness;
- with a notched trowel, varying the pitch of the notches according to the thickness applied when applying self-levelling layers on concrete;
- with a smooth trowel for multi-layered systems;
- with a medium-haired roller for varnishing.

APPLICATION PROCEDURE

Preparation of the substrate

Concrete substrates must be clean and free of oil, grease and any loose or detached parts. We recommend preparing the substrate by shot-blasting followed by removal of the dust with a vacuum cleaner.

Preparation of the product

Non-slip coat – thickness 1 mm

- Spread on **Primer SN (A+B)** mixed with **Quartz 0.5** at a ratio of 1 : 0.4 with a smooth trowel. While it is still fresh, sprinkle on **Quartz 0.5** until the primer is completely saturated.

Mapecolor I 350 SL

- When the primer has hardened, remove any excess sand with an industrial vacuum cleaner, sand the surface and apply **Mapecolor I 350 SL** mixed beforehand with **Mapecolor Paste** (add 0.7 kg of **Mapecolor Paste** for each 8 kg package of **Mapecolor I 350 SL** (A+B). Spread on using a medium-haired roller, making sure that the roll strokes criss-cross over each other.

Smooth self-levelling coat – thickness 2 mm

- Spread on **Primer SN** (A+B) mixed with **Quartz 0.5** at a ratio of 1 : 0.4 with a smooth trowel. While it is still fresh, sprinkle on **Quartz 0.5** at a rate of approximately 0.5 kg/m².
- When the primer has hardened, apply **Mapecolor I 350 SL** (A+B) mixed beforehand with **Mapecolor Paste** (add 0.7 kg of **Mapecolor Paste** for each 8 kg package of **Mapecolor I 350 SL** (A+B) and **Quartz 0.25** at a ratio of 1 : 0.5. Mix until an even blend is formed, pour onto the floor and spread out evenly using a notched trowel with “V” shaped teeth.
- Pass over the surface with a spiked roller while the product is still fresh to even out the thickness and remove all air entrapped in the product.

Non-slip coat – thickness 3 mm

- Spread on **Primer SN** (A+B) mixed with **Quartz 0.5** at a ratio of 1 : 0.4 with a smooth trowel. While it is still fresh, sprinkle on **Quartz 0.5** until the primer is completely saturated.
- When the primer has hardened, remove any excess sand with an industrial vacuum cleaner, sand the surface and apply **Mapecolor I 350 SL** (A+B) mixed beforehand with **Mapecolor Paste** (add 0.7 kg of **Mapecolor Paste** for each 8 kg package of **Mapecolor I 350 SL** (A+B) and **Quartz 0.5** at a ratio of 1 : 0.5. Mix until an even blend is formed, pour onto the floor and spread out evenly using a smooth trowel.
- Sprinkle **Quartz 0.5** sand on the surface of the **Mapecolor I 350 SL** until it is saturated.
- When it has hardened remove the excess sand, sand the surface and remove the dust with an industrial vacuum cleaner.
- Apply the finishing layer of **Mapecolor I 350 SL** (A + B + **Mapecolor Paste**) with a smooth trowel or rake smoothing to zero. Pass over the surface with a medium-haired roller, making sure that the roll strokes criss-cross over each other.

Consumption

Non-slip coat – thickness 1 mm

- FIRST COAT

Primer SN (A + B + colour)	0.7 kg/m ²
Sprinkling of Quartz 0.5 on fresh product	3.0 kg/m ²
- FINISHING COAT

Mapecolor I 350 SL	0.6 kg/m ²
---------------------------	-----------------------

Smooth self-levelling coat – thickness 2 mm

- FIRST COAT

Primer SN (A + B)	0.6 kg/m ²
--------------------------	-----------------------

Sprinkling of Quartz 0.5 on fresh product	0.5 kg/m ²
--	-----------------------

- FINISHING COAT

Mapecolor I 350 SL (A + B + Mapecolor Paste + Quartz 0.25)	3.6 kg/m ²
--	-----------------------

Multi-layered non-slip coat – thickness 3 mm

- FIRST LAYER

Primer SN (A + B)	0.6 kg/m ²
Sprinkling of Quartz 0.5 on fresh product	2.0 kg/m ²
- INTERMEDIATE LAYER

Mapecolor I 350 SL (A+B + Mapecolor Paste)	0.9 kg/m ²
Sprinkling of Quartz 0.5 on fresh product	2.5 kg/m ²
- FINISHING COAT

Mapecolor I 350 SL (A+B + Mapecolor Paste)	0.6 kg/m ²
---	-----------------------

Cleaning

Tools used to prepare and apply **Mapecolor I 350 SL** must be cleaned immediately after use with alcohol. Once hardened, the product may only be removed mechanically.

PACKAGING

8 kg kits:
component A = 6 kg;
component B = 2 kg.

STORAGE

Mapecolor I 350 SL may be stored for up to 12 months in its original packaging in a dry place and at a temperature of at least +5°C.

SAFETY INSTRUCTIONS FOR PREPARATION AND INSTALLATION

Mapecolor I 350 SL component A may irritate if it comes into contact with the skin or eyes.

Mapecolor I 350 SL component B contains substances which are highly caustic and hazardous if inhaled.

The product may cause rashes in those subjects allergic to such substances if it comes into direct contact.

Always use protective gloves and goggles when handling the product and make sure the area where it is used is well ventilated. If it comes into contact with the skin or eyes, wash off immediately with running water and seek medical attention if necessary (please refer to the Safety Data Sheet).

Mapecolor I 350 SL component A is harmful for aquatic life. Do not dispose of the product in 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.

FOR PROFESSIONAL USERS.

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

	component A	component B
Colour:	neutral	straw
Appearance:	liquid	liquid
Density (g/cm³):	1.5	1.0
Viscosity at +23°C (mPa·s):	2,150	300
Hazard classification according to EC 1999/45:	irritant, dangerous for the environment Before using refer to the "Safety instructions for preparation and installation" paragraph and the information on the packaging and Safety Data Sheet	
Storage:	12 months in its original sealed packaging	
Customs class:	3907 30 00	

APPLICATION DATA (at +23°C - 50% R.H.)

Mixing ratio:	component A : component B = 75 : 25
Colour of mix:	neutral
Consistency of mix:	thick fluid
Density of mix (kg/m³):	1,340
Viscosity of mix (mPa·s):	832
Pot life of mix at 20°C:	35 minutes
Surface temperature:	from +8°C to +30°C

FINAL PERFORMANCE

Dust dry at +23°C and 50% U.R.:	2-4 hours
Step-on time at +23°C and 50% R.H.:	24 hours
Final hardening 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

Performance characteristics	Test method	Requirements according to EN 13813 for synthetic resin screeds	Performance of product
BCA wear resistance (µm):	EN 13892-4	≤ 100	10
Bond strength (N/mm²):	EN 13892-8; 2004	≥ 1.5	3.10
Impact strength (Nm):	EN ISO 6272	≥ 4	20
Reaction to fire:	EN 13501-1	da A1 _{fl} a F _{fl}	B _{fl} -s1

**Mapefloor
I 350 SL**

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 web site www.mapei.com

**All relevant references
for the product are available
upon request and from
www.mapei.com**

(GB) A.G. BETA



Via Cafiero, 22 - 20158 Milan (Italy)

EN 13813 SR-B2.0-AR0.5-IR20

Synthetic resin screed material for internal use

Reaction to fire:	Bfl - s1	Impact resistance	IR20
Release of corrosive substances	SR	Sound insulation	NPD
Water permeability	NPD	Sound absorption	NPD
Wear Resistance	AR0.5	Thermal resistance	NPD
Bond strength	B2.0	Chemical resistance	NPD

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

2090-4-2011