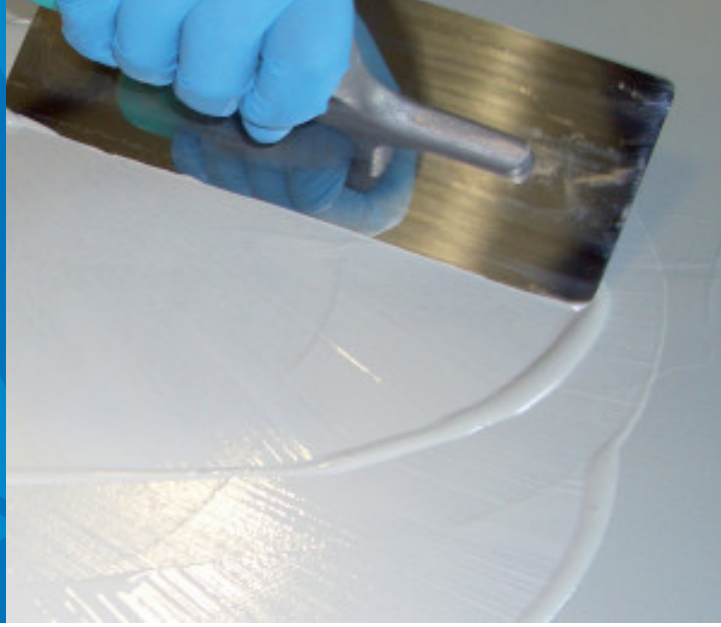
MAPEFLOOR DECOR 700

Two-component, epoxy water-based paste to create highly attractive resin systems having spatula effect or mottled finish 1.5 to 3 mm thick





WHERE TO USE

Mapefloor Decor 700 has been specially formulated to create a decorative resin system having a spatula effect or mottled finish.
Mapefloor Decor 700 is used for decorative floors and walls subject to medium traffic loads in environments requiring a personalised finish to be done in a very short time, such as shops, showrooms, apartments, commercial areas and offices etc.
This product is both versatile and easy to apply, allowing to create surfaces conceived to have an irregular and at the same time highly attractive finish.

Some application examples

· Decorative floors and walls in showrooms, shops and offices.
· Decorative floors subject to medium traffic loads, such as in museums, cinemas, exhibition spaces and shopping centres.
· Decorative floors and walls in apartments, hotel rooms, resorts etc.

TECHNICAL CHARACTERISTICS

Mapefloor Decor 700 is a two-component epoxy water-based paste produced according to a formula developed in the MAPEI R&D laboratories.
Mapefloor Decor 700 is applied by straight trowel from 1.5 to 3 mm of thickness. Once hardened, the surfaces are characterized by excellent resistance to abrasion and high resistance to chemicals.
Thanks to the creamy consistency of the product, highly decorative surfaces may be created such as a spatula effect or mottled finish. A multitude of different tones may also be obtained by adding to the product the specific pigment paste **Mapecolor Paste**, while preparing the mix.
Resin systems made using **Mapefloor Decor 700** must always be protected with a polyurethane top-coat from the **Mapefloor Finish** range of product.
Choose the most suitable finishing product according to the degree of glossiness/mattness desired or the wear-resistance required.
Please refer to MAPEI Technical Services for information.
Mapefloor Decor 700 complies with the principles defined in EN 13813 "*Screed material and floor screeds - Screed material - Properties and requirements*" which sets out the requirements for screed material to be used for indoor flooring.

RECOMMENDATIONS

· Do not dilute **Mapefloor Decor 700** with solvents.
· Do not apply **Mapefloor Decor 700** on dusty or crumbling substrates.
· Do not apply **Mapefloor Decor 700** on substrates with oil or grease stains or dirt in general.
· Do not apply **Mapefloor Decor 700** on substrates, which have not been previously primed with **Primer SN** and have not been suitably prepared.

· 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.
· **Mapefloor Decor 700** systems change colour if exposed to sunlight, but this has absolutely no effect on their performance characteristics.
· The colour can also change in case of contact with aggressive chemicals; a change in colour, however, does not mean that the resin system has been damaged by the chemical.
· If rooms where the product is being used need to be warmed up, do not use heaters that burn hydrocarbons, otherwise the carbon dioxide and water vapour given off into the air will affect the shine on the finish and ruin its appearance. Use electric heaters only.
· When possible, remove aggressive chemicals as soon as possible if they come into contact with **Mapefloor Decor 700**.
· Use suitable specific cleaning equipment and detergent to clean the surfaces, depending on the type of dirt or stain to be removed.
· Protect the coating from water for at least 24 hours after application.
· The product cannot be applied directly on cementitious substrates with a moisture content higher than 4% and/or with capillary rising damp (carry out polythene sheet test).
· The temperature of the substrate must be at least 3°C higher than the dew-point temperature.

APPLICATION PROCEDURE

Preparation of the substrate

It is very important that the surface is prepared correctly to guarantee perfect adhesion and the best performance of the resin- system.
The most suitable methods to prepare the surface are those of mechanic nature, such as shot blasting or grinding with diamond disks.
Bush-hammering or scarifying are only required if several millimetres of material need to be removed from the substrate.
After that, all scraps must be removed carefully and the dust must be removed with a vacuum cleaner.
Once the surface of the substrate has been prepared, it must be sound, compact, clean, dry, absorbent and have a slightly rough finish and have no traces of material that could affect adhesion of the coating, such as:
· cement laitance;
· dust, loose or detached parts;
· protective waxes, curing products, paraffins, efflorescence;
· pollutants of any nature;
· loose residues of existing coating etc.

Any cracks, holes or surface irregularities must be repaired and smoothed with castable epoxy resin **Eporip**, or epoxy mortar **Mapefloor EP19**, or thixotropic epoxy resin **Mapefloor JA** or **Mapefloor JA Fast**.
If the substrate surface needs to be strengthened, apply **Primer MF** by roller in one or more coats until the substrate is completely saturated.

Application of Primer SN

Pour component B into component A and mix with a low-speed electric mixer to form a smooth, even mixture.
While mixing, add approx. 20% by weight of **Quartz 0.5** to the mix and continue mixing for a few minutes to form a smooth, even mixture.
Pour the product onto the floor to be coated and spread it out evenly and uniformly by straight steel trowel or a rake.
While the product is still wet, slightly broadcast (not fully) the surface with **Quartz 0.5**.
Once **Primer SN** has hardened, remove excess sand with an industrial vacuum cleaner.
On vertical surfaces, **Primer SN** can be applied neat by medium-pile roller without adding any quartz sand; then, slightly broadcast with **Quartz 0.5**.
As an alternative it is possible to apply a layer of **Primer SN Rasante**.

Preparation and application of Mapefloor Decor 700

Pour component A into component B, add approx. 7% by weight of pigment **Mapecolor Paste** and mix with a low speed electric mixer to achieve a smooth, even mixture.
Slowly add from 2 to 20% by weight of clear water to the blend while mixing until the consistency and workability required are obtained.
Apply the product on the surface by straight steel trowel and spread it to obtain the decorative finish required.
Once the first layer has hardened, within a maximum of 24 hours after application, carefully sand the surface with suitable equipment with sandpaper disks with grain size 100 or 120.
Follow the same instructions to prepare and apply the second layer, but this time do not dilute the product with more than 10% of water by weight.
To obtain particular decorative effects, it is possible to use a colour of **Mapecolor Paste** which contrasts with the colour used for the first layer.
Once the second layer has hardened, sand the surface in case some flaws or imperfections have to be removed.
The final thickness of the **Mapefloor Decor 700** system is between 1.5 and 3 mm.

Finishing layer

The hardened surface of **Mapefloor Decor 700** must be protected with a suitable transparent polyurethane finish coat from the **Mapefloor Finish** range, chosen according to the degree of glossiness/metness desired.
Apply at least two coats of finish product with a short pile roller.

If a slightly non-slip surface is required, add 3-5% by weight of **Mapefloor Filler** to the last coat of the finish product, according to the degree of non-slip finishing required.
On very dark or bright colours, the addition of **Mapefloor Filler** may cause a whitening effect on the surface.
In order to make routine cleaning and maintenance operations simpler, we recommend applying a homogeneous coat of wax **Mapelux Opaca** or **Mapelux Lucida** over the entire surface of the floor.



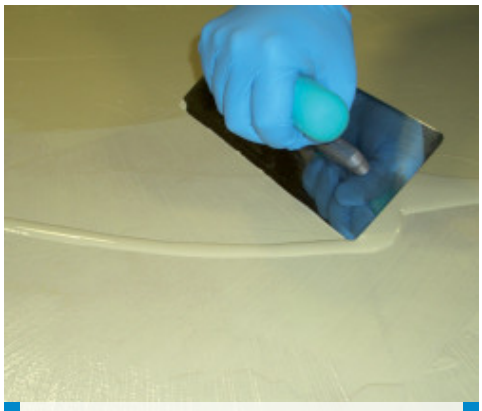
Mapefloor Decor 700 poured on the substrate immediately after mixing



Application of the product with a straight trowel



Fresh surface of Mapefloor Decor 700 after the application with a trowel



Application of the second coat of the product using a trowel

CLEANING

Clean tools used to prepare and apply **Mapefloor Decor 700** with plenty of running water immediately after use.
Once hardened, the product may only be removed using mechanical means.

CONSUMPTION

From 1 to 1.5 kg/m² per layer, depending on the characteristics of the substrate and the type of decorative effect desired.

PACKAGING

10 kg units: comp. A = 2 kg;
comp. B = 8 kg.

STORAGE

Mapefloor Decor 700 may be stored for up to 12 months in its original packaging in a dry place at a temperature of at least +10°C. Protect from frost.

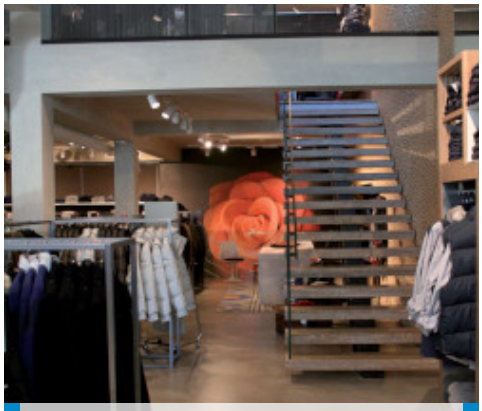
SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

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:	cream	white
Appearance:	paste	paste
Density (g/cm³):	1.2	1.65
Viscosity at +23°C (Pa·s):	300 ÷ 450 (H#F - rpm 2.5)	500 ÷ 800 (H#F - rpm 5)
APPLICATION DATA (at +23°C - 50% R.H.)		
Mixing ratio:	component A : component B = 1 : 4	
Colour of mix:	cream	
Consistency of mix:	paste	
Density of mix (kg/m³):	1,450	
Viscosity of mix (Pa·s):	from 700 to 1.000 (H#F - rpm 5)	
Surface temperature:	from +12°C to +30°C	
FINAL PERFORMANCE		
Dust dry at +23°C and 50% R.H.	2 h	
Set to light foot traffic at +23°C and 50% R.H.	12 h	
Complete hardening time:	7 days	
Resistance to temperature (open air) (°C):	-20/+60	
Compressive strength after 7 days (EN 196-1) (N/mm²):	50	
Flexural strength after 7 days (EN 196-1) (N/mm²):	25	
TABER abrasion resistance after 7 days (EN ISO 5470-1) (disk CS 17 -1000 g - 1000 revs) (mg):	50	
Reaction to fire (EN 13501-1):	D-s2-d0 (walls)	

Main characteristic	Test method	Requirements according to EN 13813 for synthetic resin-based screeds	Performance of product
Wear resistance-BCA:	EN 13892-4	≤ 100 µm	< 50 µm
Bond strength:	EN 13892-8:2004	≥ 1.5 N/mm²	≥ 1,5 N/mm²
Impact resistance:	EN ISO 6272	≥ 4 Nm	20 Nm

Reaction to fire:	EN 13501-1	from $A1_{FL}$ to F_{FL}	B_{FL}-S1



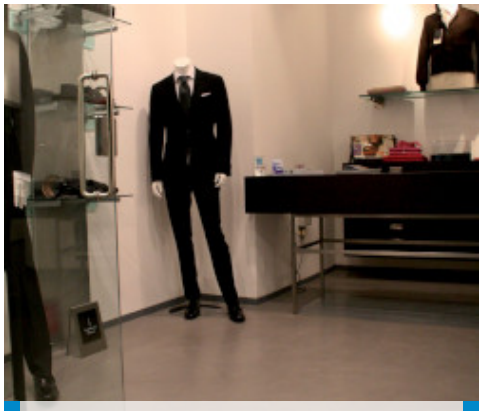
Floor made using Mapefloor Decor 700



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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

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