



NEW

Mapefloor PU 400

**Two-component,
neutral-coloured,
self-levelling, highly-
flexible polyurethane
filling binder**



WHERE TO USE

Thanks to its special formulation, **Mapefloor PU 400** may be used for internal and external parking systems on concrete substrates, where a high degree of flexibility is required and where there are fractures or a risk of cracking.

Mapefloor PU 400 is used in the **Mapefloor Parking System** waterproofing horizontal surfaces in car-parks, multi-storey car-parks and on floors where there are moving vehicles.

TECHNICAL CHARACTERISTICS

Mapefloor PU 400 is a two-component, polyurethane resin-based filler treatment, made according to a special formula developed in MAPEI's own research laboratories.

Mapefloor PU 400 is highly resistant to the formation of cracks in concrete, even at temperatures as low as -20°C.

Mapefloor PU 400 has good resistance to mechanical stress, including the property of crack-bridging. Yellowing of the surface due to exposure to UV rays has no influence on the characteristics and performance of the coating.

RECOMMENDATIONS

- Do not apply **Mapefloor PU 400** on substrates without primer if the level of moisture is greater than 4%, or on those which are subject to rising damp (consult our Technical Department).

- Do not dilute **Mapefloor PU 400** with solvents or water.
- Do not apply **Mapefloor PU 400** on dusty or crumbly substrates.
- Do not apply **Mapefloor PU 400** on substrates which have traces of oil, grease and dirt in general.
- Do not apply **Mapefloor PU 400** on substrates which have not been treated beforehand with **Primer SN** and/or prepared correctly.
- 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 rising damp. The screed of 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 removed mechanically.

Before applying **Mapefloor PU 400**, any dust present on the substrate must be completely removed.

Application of Primer SN

Primer SN may be used neat or mixed with **Quartz 0.5**. Apply evenly using a smooth spreader or rake on a

TECHNICAL DATA (typical values)		
PRODUCT IDENTITY		
	component A	component B
Colour:	neutral	straw-coloured
Appearance:	paste	viscous liquid
Density (g/cm³):	1.9	1.05
Viscosity at 23°C (mPa·s):	33,000 (# 6 - 10 rpm)	7,000 ± 1,000
Storage:	6 months in its original, unopened packaging	
Hazard classification according to EC 1999/45:	harmful, dangerous for the environment	harmful
	Before using refer to the "Safety instructions for preparation and application" paragraph and the information on the packaging and Safety Data Sheet	
Customs class:	3909 50 90	
APPLICATION DATA (at +23°C and 50% R.H.)		
Mixing ratio:	component A : component B = 24 : 76	
Colour of mix:	neutral	
Consistency of the mix:	thick fluid	
Pot life at +23°C:	59 minutes	
Application temperature range:	from +8°C to +30°C	
FINAL PERFORMANCES (at 23°C and 50% R.H.)		
Dust dry:	4-6 hours	
Set to light foot traffic:	24 hours	
Final hardening time:	7 days	
Elongation (DIN 53504) (%):	approximately 470	
Shore A hardness after 28 days:	70	

surface which has been prepared correctly. Immediately after application, the fresh surface of **Primer SN** must be sprinkled with **Quartz 0.5** to guarantee perfect bonding of the successive resin coating.

Preparation of the product

The two components which make up **Mapefloor PU 400** must be mixed together. Then add the colouring paste (**Mapecolor Paste**) and continue mixing with a low-speed drill to avoid the entrapment of air (add 0.7 kg of colouring paste according to the colour required for each 19.75 kg package of **Mapefloor PU 400**).

Continue mixing for a few minutes until a lump-free, homogenous mix is obtained. Add 20-30% by weight of **Quartz 0.25** while still mixing until a homogenous mix is obtained.

Application of the product

Pour the product onto the floor and spread it out evenly on the surface to be treated with a notched trowel. While the product is still fresh, pass over the layer with a spiked roller.

CONSUMPTION

from 1.5 to 2 kg/m², according to the condition of the substrate.

PACKAGING

19.75 kg kits:
– component A = 4.75 kg;
– component B = 15 kg.

STORAGE

6 months in its original packaging at a temperature of between +10°C and +30°C.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapefloor PU 400 component A and component B are harmful if inhaled and may cause allergic reactions in those subjects sensitive to such products (inhalation of comp. A due to its content of isocyanates). While using the products, we recommend protecting the respiratory system and the use of protective gloves and goggles. Only apply the product in well-ventilated areas. Seek medical attention in the case of accidents or giddiness.

Component A of **Mapefloor PU 400** is hazardous for aquatic life: do not dispose of the product in the environment.

For further information, please refer to the Safety Data Sheet.

FOR PROFESSIONAL USERS.

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

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