



Mapecfloor PU 462

Two-component elastic and soundreducing intermediate coating used to create Mapecfloor Comfort System AR/S and Mapecfloor Comfort System AL/S floor coating systems



DESCRIPTION

Mapecfloor PU 462 is a two-component, aromatic polyurethane resin with 100 % solids content used to create a self-levelling and soundreducing intermediate-coating in system **Mapecfloor Comfort AR/S** and **Mapecfloor Comfort AL/S**.

TECHNICAL CHARACTERISTICS

Mapecfloor PU 462 is a two-component, coloured aromatic polyurethane resin with 100 % solids content developed in the MAPEI R&D laboratories.

Mapecfloor PU 462 is very easy to use thanks to its self-levelling properties and replaces the use of traditional rubber mat like **Mapeccomfort**.

AREAS OF USE

Floors coated with **Mapecfloor PU 462** are particularly recommended for use in civil and public service environments such as:

- schools, nurseries, offices, public offices, etc.;
- hospitals and care homes;
- libraries, museums, showrooms, etc.;
- apartments;
- bars and shops in general.

RECOMMENDATIONS

- Do not apply **Mapecfloor PU 462** on damp substrates or on substrates with capillary rising damp (please contact our Engineering Department).
- Do not dilute **Mapecfloor PU 462** with solvent or water.
- Do not apply **Mapecfloor PU 462** on dusty or crumbling substrates.

- Do not apply **Mapecfloor PU 462** on substrates with oil or grease stains or stains in general.
- Apply **Mapecfloor PU 462** on substrates after preparing them according to specification and treating them with **Primer SN**.
- 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.
- If rooms where the product is being applied need to be warmed up, do not use a gas or oil heater; the carbon dioxide and water vapour given off into the room will affect the shine and finish of the floor. Use electric heaters only.
- Remove aggressive chemicals as soon as possible after they come into contact with **Mapecfloor PU 462**.
- Use suitable specific cleaning equipment and detergent to clean the product, depending on the type of dirt or stain to be removed.
- Protect the product from water for at least 24 hours after application.
- Do not apply the product directly on substrates with a moisture content of more than 4 % and/or with capillary rising damp (check by testing it with a sheet of polythene).
- The temperature of the substrate must be at least 3°C above the dew-point temperature.

APPLICATION PROCEDURE

Preparation of the substrate

The surface of concrete floors must be dry, clean and sound and have no crumbling or detached areas. The compressive strength of the concrete used for the

Mapefloor PU 462



Application of Mapefloor PU 462



Spread Mapefloor PU 462 evenly using a rake or a notched spreader

substrate must be at least 25 N/mm² and its tensile strength must be at least 1.5 N/mm² and must always be suitable for its final use and the types of load to which the floor will be subjected.

The level of moisture in the substrate must be a maximum of 4% and there must be no capillary rising damp (check by testing it with a sheet of polythene).

The surface of the floor must be prepared with suitable equipment (e.g. shot-blasting or grinding with a diamond disk) to remove all traces of dirt, cement laitance and crumbling or detached areas and to make the surface slightly rough and absorbent. Before applying any material, remove all dust from the surface with a vacuum cleaner. Any cracks must be repaired by filling them with **Eporip** or **Mapepoxy BI-IMP** while any deteriorated areas in the concrete must be repaired with **Mapefloor EP19**, **Mapepoxy L-mørtel** or a cementitious mortar from the **Mapegrout** or **Confix** line.

Before applying **Mapefloor PU 462**, remove all traces of dust from the surface with a vacuum cleaner.

Apply **Mapefloor PU 462** on cementitious substrates after applying a coat of **Primer SN**.

Application of Primer SN

After preparing the substrate as specified, apply an even coat of **Primer SN** mixed with **Sand 0.1-0.4 mm** with a flat trowel or smooth rake. Immediately after applying **Primer SN**, broadcast the surface with **Sand 0.4-0.8 mm** while it is still wet to ensure the next coat of resin adheres perfectly.

Preparation of the product

The two components which make up **Mapefloor PU 462** must be mixed together just before application. Mix component A thoroughly with an electric duomixer at low-speed (300 - 400 revs/min) and add the contents of component B. Mix components A and B with a mixer at low-speed (300 - 400 revs/min) to prevent entraining air into the product. Mix for at least two minutes until they are completely blended.

NOTE: The product will separate during storage. Before use always mix comp. A until it is completely homogenous and then add comp. B. Never take out any parts of the product!

Always pour the mix into a clean container and briefly mix again.

Apply the mix within the pot life indicated in the data table (refers to a temperature of +20°C). Higher surrounding temperatures will reduce the pot life of the mix, while lower temperatures will increase its pot life.

Application of the product

Spread **Mapefloor PU 462** evenly using a rake or a notched spreader to form a layer

which is 4 - 6 mm thick. Immediately after applying the product, go over the surface several times in different directions with a bubble-breaker to release any air entrained in the product during mixing.

Once **Mapefloor PU 462** has hardened, within 48 hours at +23°C apply **Mapefloor PU 460 N** or **Mapefloor PU 461** according to specifications in technical data sheet.

The final coats should be applied with **Mapefloor Finish 58 W** within 48 hours (at +23°C). If more than 48 hours (at +23°C) go by after applying **Mapefloor PU 460 N**, roughen the surface slightly with sandpaper or emery cloth before applying the finishing coat. Make sure all traces of dust are removed from the surface with a vacuum cleaner before applying the finish. See technical data sheet for more information.

CONSUMPTION

Mapefloor PU 462: approx. 3.9 kg/m² to form a 4 mm thick layer.

CLEANING TOOLS

Clean tools used to prepare and apply **Mapefloor PU 462** with thinners immediately after use. Once hardened, the product may only be removed using mechanical means.

PACKAGING

24 kg kit (A + B):
– component A = 20 kg;
– component B = 4 kg.

STORAGE

Mapefloor PU 462 may be stored for up to 6 months in a dry area in its original packaging at a temperature of between +5°C and +35°C.

SAFETY INSTRUCTIONS FOR PREPARATION AND INSTALLATION

Instructions for the safe use of our products can be found on the latest version of the SDS available from our website www.mapei.no

PRODUCT ONLY FOR PROFESSIONAL USE.

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 web site www.mapei.no

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

| | component A | component B |
|------------------------------------|-----------------------------|---------------------------|
| Colour: | brown | brown |
| Consistency: | fluid paste | clear liquid |
| Density (g/cm³): | 0.94 | 1.20 |
| Viscosity at +23°C (mPa·s): | ca. 19 300 (# RvC/30/58) | ca. 300 (# 1 - 20 rpm) |

APPLICATION DATA (at +23°C and 50% R.F.)

| | |
|---|--|
| Mixing ratio: | 5 : 1 component A : component B |
| Viscosity of mix at +23°C (mPa·s): | approx. 15 000 (RvC/30/48) |
| Colour of mix: | brown |
| Consistency of mix: | self-levelling fluid paste |
| Density of mix (kg/m³): | 0.970 |
| Workability time at +20°C: | approx. 20 minutes |
| Application temperature: | from +13°C to +30°C (refers to the surroundings, material and substrate) |
| Hardening time at +23°C and 50% R.H. | |
| – dust dry: | 4 hours |
| – set to foot traffic: | 24 hours |
| – complete hardening: | 7 days |

The times above are for indication purposes only and are affected by actual site conditions (e.g. temperature of the surroundings and substrate, relative humidity of the surrounding air, etc.)

FINAL PERFORMANCE

| | |
|---|-------------|
| Soundreduction (in system ISO 717-2): | up to 14 dB |
| Elongation at failure (DIN 53504) (%): | approx.130 |
| Tensile strength (DIN 53504) (N/mm²): | 7 |
| Shore A hardness (DIN 53505): | 75 |



Floor applied with
Mapefloor PU 462

Mapefloor PU 462

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation.

The most up-to-date TDS can be downloaded from our website www.mapei.no

ANY ALTERATION TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.

All relevant references for the product are available upon request and from www.mapei.no

