

# Mapecfloor Finish 57

## Abrasion resistant, polyurethane coating for industrial floor

### WHERE TO USE

**Mapecfloor Finish 57** is a four-component high solids, aliphatic polyurethane floor coating with very good abrasion and chemical resistance performance.

**Mapecfloor Finish 57** is indicated for very high traffic areas such as truck loading docks, warehouses and high traffic aisle ways.

### SOME APPLICATION EXAMPLES

- Industrial floors
- Warehouses and logistics areas
- Public areas

### TECHNICAL CHARACTERISTICS

- **Mapecfloor Finish 57** is a four-component high solids, aliphatic polyurethane floor coating, with very good abrasion and chemical resistance performance, produced according to a special formula developed in Mapei's own research laboratories.
- **Mapecfloor Finish 57** contains proprietary, hard fillers which increase abrasion resistance by up to 50% over that of standard polyurethane coatings.

- **Mapecfloor Finish 57** is an aliphatic polyurethane based coating so it has a very good UV resistance.

### STANDARD COLOR

RAL1015, 7001, 7035, 7040, 7037, 6001, 6017 and other colors in RAL Colour Chart is recommended. Because of different materials, the product colour may differ slightly with Colour Chart.

### RECOMMENDATIONS

- **Mapecfloor Finish 57** can be used on **Mapecfloor I 300 SL, Mapecfloor I 302 SL, Mapecfloor I 312** and other material surface which Mapei recommends.
- Do not apply **Mapecfloor Finish 57** on surfaces which are wet or which have oil or grease stains.

### APPLICATION PROCEDURE

#### Job site condition

**Air temperature:** 8~30°C

**Air humidity:** ≥30% and ≤80%

**Substrate temperature:** ≥5°C and must be at least 3°C above dew point

## Preparation of the substrate

**Mapefloor Finish 57** may be applied on both new and old resin coatings. If the product is applied on new resin coatings, the said coating must be perfectly hard, dry and must have been laid no more than 24 hours before. If the recommended maximum time of 24 hours is longer, the surface must be grinded using a single-headed grinder with fine sandpaper or abrasive mesh (80-100 grade) , in order to guarantee that the product bonds well.

If **Mapefloor Finish 57** is applied on old resin surfaces, they must be perfectly clean and free of oil, greasy substances and any other product which could affect bonding. Also in this case, the entire surface must be grinded to guarantee that the product bonds well to the substrate.

## Preparation of the product

Empty completely the component B into a clean steel mix container large enough to accommodate the 5 liter mix. Then add the component A. Mix with a low speed mixer for 1 minute. Then add component D and mix for 2 minutes. Then slowly sift in the wear additive component C with the mixer running to avoid clumping and mix a further 2 minutes.

## Application of the product

The floor should be divided into sections that can be completed without stopping. Sections should be separated with expansion joints or doorways when possible. The end of a section should be taped off for forming a straight line providing a clean edge for an adjacent section.

**Mapefloor Finish 57** must be applied with a 3/8" nap middle-haired roller and roller trays. The roller should be wet in the tray and then the excess coating is removed by lightly rolling in the tray in order to avoid drips. Spread the material with a roller, passing perpendicular to the paths of coating. This material must be aggressively rolled to even the thickness. It is extremely important to apply the coating at a thickness of 0.08 mm to

achieve proper appearance, texture, and color development. If areas are too thick, the coating may blister, if too thin, the coating will appear very flat in sheen.

Finally, cross roll the entire area with straight uninterrupted passes across the entire width of the floor. This will reduce roller marks and the color will be more uniform and homogeneous.

## Cleaning

Tools and equipment used to prepare and apply **Mapefloor Finish 57** must be cleaned with alcohol immediately after its use. After hardening, the product can only be removed using mechanical means.

## CONSUMPTION

0.1 kg/m<sup>2</sup>

## PACKAGING

7 kg/set

component A: 0.5 kg

component B: 3.3 kg

component C: 2.5 kg

component D: 0.7 kg

## STORAGE

The product can be stored for 6 months in its original packaging in a dry place, and at a temperature of at least +5°C.

## SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Component B may produce irritation or rashes, if it comes into contact with the skin. Therefore, we recommend using protective gloves and goggles when preparing and laying the product, together with the application of the usual precautions taken when handling chemical products.

## PRODUCT FOR PROFESSIONAL USE.

Carefully read the safety Data Sheet or contact Mapei technicians for further information.

## TECHNICAL DATA (typical values)

Component	A	B	C	D
Colour:	Transparent or light amber	Transparent	White	Colored
Appearance:	liquid	liquid	powder	liquid
Density (g/cm <sup>3</sup> ):	0.97	1.15	3.2	1.3~ 1.8
Viscosity (mPa•s):	5	600	---	400–1000

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

Mixing ratio:	A : B : C : D = 7.15 : 47.15 : 35.7 : 10
Colour of mix:	Translucent (without Component D) or colored
Consistency of the mix:	fluid
Density of the mix (g/cm <sup>3</sup> ):	1.5
Viscosity of the mix (mPa•s):	500
Pot life:	30 min
Surface temperature:	+12° C to +30° C

## FINAL PERFORMANCES (at +23° C, 50% R.H.)

Dust dry :	5–6 hours
Set to light foot traffic:	8–10 hours
Final hardening time:	7 days
Coefficient of Friction (James Friction Tester) :	74–88
Abrasion Resistance (ASTM D 4060) (CS–17 1000 g/1000 r)	20 mg
Hardness (ASTM D 3363) PENCIL:	4H

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## 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  
[www.mapei.com.cn](http://www.mapei.com.cn)**



**BUILDING THE FUTURE**

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