# MAPEFLOOR FINISH HTR

**Two-component aliphatic, transparent glossy, elastic polyurethane finish, with high resistance to tyre plasticisers**




## DESCRIPTION

**Mapefloor Finish HTR** is a two-component, aliphatic polyurethane coating product with a glossy finish, according to a formula developed in MAPEI R&D laboratories.
**Mapefloor Finish HTR** is a product used to form a protective transparent film on surfaces requiring high resistance to plasticisers present in new tyres, with an attractive finish and a long-lasting shine.

## TECHNICAL CHARACTERISTICS

- No migration in the film of resin of the plasticizers contained in the new tyres
- Very good wear resistance
- Very good resistance to yellowing
- Easy to apply
- Glossy aspect

## ADVANTAGES

- No tyres marks on the surface due to the contact with new tyres
- Can be applied on old and new resin systems
- Ease of maintenance
- Ease of cleaning

## WHERE TO USE

**Mapefloor Finish HTR** is used as transparent protective topcoat for old and new resin systems, when the resistance to the plasticisers from new tyres is required, as well as a nice aspect and a lasting glossiness.
It is mainly used in public and private car park areas, car dealers, fairs, workshops, automotive industry etc.

## RECOMMENDATIONS

- Do not apply **Mapefloor Finish HTR** on substrates with oil or grease stains or dirt in general.
- Do not dilute **Mapefloor Finish HTR** with organic solvents or water.
- 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.

- The coating may change colour if it comes into contact with aggressive chemicals. An aesthetical change, however, does not mean that it has been damaged by chemicals.
- Remove aggressive chemicals as soon as possible after they come into contact with **Mapefloor Finish HTR**.
- Protect the product from water for at least 24 hours after its application.
- The product cannot be directly applied on concrete or cementitious substrates.
- The temperature of the substrate during the application and the hardening must be at least 3°C above the dew point and the relative humidity of the air must be max. 80%.
- Use suitable specific cleaning equipment and detergent to clean the product, depending on the type of dirt or stain to be removed.

## APPLICATION PROCEDURE

### Preparation of the substrate

**Mapefloor Finish HTR** can be applied on both new and existing resin systems.
The substrate must be hardened, dry, perfectly clean, free from oils, dust, greasy substances and/or any contaminant before the application of the product.
For all the substrate consisting of resin system older than 24 hours it is necessary to abrade their surface by means of suitable sanding machine with fine abrasive discs (200-300 grit) or with a fine graded abrasive pad.
Thoroughly remove all dust by vacuum before the application of the products

### Preparation of the product

Stir the two components separately, then pour the entire contents of component B into the container of component A and mix with a low-speed electric mixer (300-400 rpm) keeping the paddle immersed to avoid air entrapment, for at least 2-3 minutes until completely blended. Make sure that no parts of incorrectly mixed product remain on the walls or bottom of the can. Mix only the quantity that can be used within the maximum workability time indicated in the table.

### Application of the product

Apply **Mapefloor Finish HTR** evenly in one or two coats by short-pile roller, or by airless spray to avoid product accumulations that could lead to aesthetic unevenness.
Carefully apply the product in a criss-cross pattern and pay particular attention to the overlapping, to ensure that the film application is as even as possible.
If the maximum waiting time between the coats has exceeded, lightly sand the surface before applying the further coat.
Apply the product within the specified application time checking the ambient and material temperatures.
Application and over-coating times are shorter at high temperatures and longer at low temperatures.

## CONSUMPTION

0.050- 0.150 kg/m² per coat, depending on the type of substrate to be covered.

## CLEANING TOOLS

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

## PACKAGING

10 kg cans (A+B):

- component A = 7 kg;
- component B = 3 kg.

## STORAGE

12 months in its original sealed packaging, in a dry area at a temperature between +5°C to +30°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: | transparent | transparent |
| Consistency: | liquid | liquid |
| Density: | approx. 1.0 g/cm³ | approx. 1.1 g/cm³ |
| Viscosity at +23°C - No. 4 Ford cup : | 17 sec. | 44 sec. |

| APPLICATION DATA (at +23°C - 50% R.H.) | |
|---|---|
| Mixing ratio by weight: | component A : component B = 70 : 30 |
| Consistency of mix: | liquid |
| Density of mix : | 1,050 kg/m³ |
| Viscosity of mix at +23°C - No. 4 Ford cup : | 21 sec. |
| Workability time at +20°C: | approx. 70 min. |
| Dust dry: | approx. 200 min. |
| Complete hardening time: | 7 days |
| Application temperature: | from +10°C to +30°C |
| Maximum over-coating time: | 8 h |
| Surface temperature: | from +10°C to +30°C |

| FINAL PERFORMANCE | |
|---|---|
| Adhesion (EN ISO 2409): | class: 0 |
| QUV colour variation test (ASTM G 154): | > 2,000 hours with no variation |
| Set to light foot traffic at +23°C and 50% R.H.: | 12 h (minimum) |
| Gloss (60°C) (ISO 2813): | 95 |
| Taber test (after 7 days at +23°C and 50% R.H.), CS 17 wheel/R.H. 1000 cycles/ 1000 g (EN ISO 5470-1): | 30 mg |
| Reaction to fire class (EN 13501-1): | $B_{FL}$-s1 |

## 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**

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

# TECHNICAL SPECIFICATIONS

Supply and installation, by short-pile roller or airless spray, of transparent, glossy, elastic two-component aliphatic polyurethane finish (such as **Mapefloor Finish HTR** by MAPEI S.p.A.) to create protective topcoats for resin systems, resistant to plasticisers present in new tyres.

The product must have the following performance characteristics:

| | |
|---|---|
| **Adhesion (EN ISO 2409):** | class 0 |
| **QUV colour variation test (ASTM G 154):** | > 2,000 h with no variations |
| **Set to light foot traffic at +23°C and 50% R.H.:** | 12 h (minimum) |
| **Gloss factor (Gloss 60°C) (UNI ISO 2813):** | 95 |
| **Taber Test after 7 days at +23°C, 50% R.H., CS 17 wheel/1,000 cycles/1,000 g (EN ISO 5470-1):** | 30 mg |
| **Reaction to fire class (EN 13501-1):** | $B_{FL}$-s1 |

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