



SGBPDC-12-093

# Mapecoat I 620 W



**Two-component water-based epoxy coating with a shiny finish, for concrete floors and cementitious substrates, to provide an anti-dust, oil resistant finishing treatment, and as a coating for epoxy systems**



**Mapecoat I 620 W** is specially formulated to form a shiny, protective anti-dust and anti-oil film, which is applied directly onto concrete or cementitious systems, such as **Ultratop**.

#### Some application examples

- Anti-dust finish on concrete floors.
- Finishing product for resin floors, such as **Mapecolor System 53**.
- Finishing product for **Ultratop**, for a water-repellent, anti-dust and anti-oil surface on the substrate without altering the natural colour of the **Ultratop** system.

#### TECHNICAL CHARACTERISTICS

**Mapecoat I 620 W** is a solvent-free, two-component, low-yellowing water-based epoxy coating, produced according to a formula developed in MAPEI's own R&D Laboratories.

**Mapecoat I 620 W** is applied using a roller or *airless* spray system, at various thicknesses from 100 to 150 microns. After hardening, it offers excellent resistance to abrasion. If an anti-slip finish is required, add from 5 to 10% by weight of **Mapecolor Filler** to **Mapecoat I 620 W**, according to the degree of anti-slip finish required.

#### RECOMMENDATIONS

Do not apply **Mapecoat I 620 W**:

- on dusty, crumbling or irregular surfaces;

- on greasy surfaces or surfaces subject to water under counter-pressure;
- do not dilute **Mapecoat I 620 W** with solvents.

Apply **Mapecoat I 620 W**:

- evenly in a uniform thickness;
- using a short or medium-haired roller on concrete or **Ultratop**.

#### APPLICATION PROCEDURE

##### Preparation of the substrate

If **Mapecoat I 620 W** is applied on old concrete, it must be perfectly clean and free of oil, grease and/or any other type of contamination. Before carrying out the treatment, all surfaces must be sanded down, and the resulting dust must be removed with an industrial vacuum cleaner.

If **Mapecoat I 620 W** is applied on **Ultratop**, **Ultratop** must be perfectly set; wait at least 24 hours (according to the thickness applied) before painting.

##### Preparation of the product

**Mapecoat I 620 W** is a two-component, shiny epoxy finishing product, made up of two pre-dosed components. We recommend preparing the product as follows: pour component A into the container of component B, and carefully mix them together using a low-speed drill with a blending attachment until a homogenous mix is obtained. Add 10 to 20% of water while mixing, until the paste formed is once again homogenous.

## TECHNICAL DATA (typical values)

### PRODUCT IDENTITY

|                                                           | component A             | component B             |
|-----------------------------------------------------------|-------------------------|-------------------------|
| <b>Colour:</b>                                            | straw-coloured          | whitish                 |
| <b>Appearance:</b>                                        | liquid                  | thick liquid            |
| <b>Density (g/m<sup>3</sup>):</b>                         | 1.10                    | 1.25                    |
| <b>Viscosity at +23°C (mPa·s):</b>                        | 6,000<br>(# 5 - rpm 10) | 5,000<br>(# 5 - rpm 10) |
| <b>Maximum VOC content according to 2004/42/EC (g/l):</b> | 50                      |                         |

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

|                                               |                                      |
|-----------------------------------------------|--------------------------------------|
| <b>Mixing ratio:</b>                          | component A : component B = 50 : 100 |
| <b>Colour of mix:</b>                         | opalescent                           |
| <b>Consistency of the mix:</b>                | fluid                                |
| <b>Dry solids content (%):</b>                | 52                                   |
| <b>Density of the mix (kg/m<sup>3</sup>):</b> | 1,180                                |
| <b>Viscosity of the mix (mPa·s):</b>          | 5,500<br>(# 5 - rpm 10)              |
| <b>Application temperature range:</b>         | from +12°C to +30°C                  |

### FINAL PERFORMANCE (at +23°C and 50% R.H.)

|                                   |            |
|-----------------------------------|------------|
| <b>Pot life:</b>                  | 40 minutes |
| <b>Dust dry:</b>                  | 3 hours    |
| <b>Setting time:</b>              | 8-9 hours  |
| <b>Set to light foot traffic:</b> | 24 hours   |
| <b>Final hardening time:</b>      | 7 days     |

**Mapecoat I 620 W** may be coloured by adding, during the mixing, 10% by weight of **Mapecolor Paste**.

#### **Anti-slip finish**

If an anti-slip finish is required, add 5-10% by weight of **Mapefloor Filler** to the paste, and continue mixing for a few more minutes. In this case, we recommend that the paste is kept well blended to avoid sedimentation of **Mapefloor Filler**.

#### **Application of the product**

**Mapecoat I 620 W** must be applied evenly using a short/medium haired roller or with an *airless* spray system.

#### **Cleaning**

Tools and equipment used to prepare and apply **Mapecoat I 620 W** must be cleaned with water immediately after use. Once it has set, the product may only be removed mechanically.

#### **CONSUMPTION**

0.1-0.25 kg/m<sup>2</sup> per coat, according to the characteristics of the substrate on which it is applied and the application method used.

#### **PACKAGING**

15 kg kits:  
component A = 5 kg in plastic tubs;  
component B = 10 kg in plastic tubs.

#### **STORAGE**

**Mapecoat I 620 W** can be stored for 12 months in its original packaging in a dry place, and at a temperature of at least +10°C.

#### **SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION**

**Mapecoat I 620 W** components A and B may irritate the skin and may cause sensitisation

in those subjects sensitive to such products. We recommend using gloves and protective goggles and to take the usual precautions for handling chemical products.

In case of contact with eyes or skin wash immediately with plenty of water and seek medical attention.

Then, **Mapecoat I 620 W** (component A and component B) are also hazardous for aquatic life. Do not dispose of the product in the environment.

For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet.

PRODUCT 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 website [www.mapei.com](http://www.mapei.com)

**All relevant references  
for the product are available  
upon request and from  
[www.mapei.com](http://www.mapei.com)**



**Mapecoat  
I 620 W**



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