



Mapecoat PU 15

**Two-component,
aliphatic, solvent-based
polyurethane finish
resistant to wear
and ultra-violet rays**

WHERE TO USE

Thanks to its considerable elasticity, extremely simple application and high resistance to wear and UV rays, **Mapecoat PU 15** is used to form a protective finish on waterproofing membranes from the **Purtop** range.

TECHNICAL CHARACTERISTICS

Mapecoat PU 15 is a two-component, solvent-based, neutral-coloured, aliphatic polyurethane finishing product. It has been developed in the MAPEI research laboratories and has the following characteristics:

- high elasticity for use on waterproofing membranes from the **Purtop** range;
- excellent resistance to abrasion and wear;
- excellent resistance to ultra-violet rays;
- greater resistance to hydrolysis and atmospheric agents compared with traditional solvent-based finishing products;
- neutral colour, may be coloured by adding **Mapecolor Paste**;
- attractive finish.

RECOMMENDATIONS

- Only apply **Mapecoat PU 15** if the temperature of the substrate is at least +3°C higher than the dew-point temperature.

- Do not dilute **Mapecoat PU 15** with solvent (e.g. **Thinner PU**) at rates of more than 10% of the volume of finishing product used.
- Apply **Mapecoat PU 15** within 24 hours of applying membranes from the **Purtop** range.
- Never apply the product directly on concrete, cement-based or other types of alkaline substrate.

APPLICATION PROCEDURE

Substrate preparation

If the substrate to be treated has been coated with a membrane from the **Purtop** range, it must be structurally sound and free of loose portions, dust, dirt, grease, oil and any other material or substance that could compromise adhesion of the finishing product to the substrate.

If **Mapecoat PU 15** is applied more than 24 hours after applying a **Purtop** membrane, the surface of the membrane must be abraded with sandpaper and all dust must be removed with a vacuum cleaner.

Preparation of the product

Prepare **Mapecoat PU 15** by hand with an electric mixer. Mix each of the two components of **Mapecoat PU 15** separately with an electric mixer at low speed, then pour component B into the container of component A and add 10% in weight of **Mapecolor Paste**.

Mix for several minutes until it is thoroughly blended. Only prepare the amount of product that can be



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Application of Mapecoat PU 15 with a roller

| TECHNICAL DATA (typical values) | | |
|---|-----------------------------|----------------------------|
| PRODUCT IDENTITY | | |
| | component A | component B |
| Colour: | neutral | colourless |
| Appearance: | liquid | liquid |
| Brookfield viscosity at +23°C (mPa·s): | 4500 (rotor 6 - 100 rpm) | 250 (rotor 2 - 100 rpm) |
| Density (g/cm ³): | 1.55 | 1.1 |
| Dry solids content (%): | 90 | 80 |
| APPLICATION DATA (at +23°C and 50% R.H.) | | |
| Mixing ratio: | 60/40 | |
| Colour of mix: | neutral | |
| Consistency of mix: | liquid | |
| Density of mix (g/cm ³): | 1.35 | |
| Viscosity of mix at +23°C (mPa·s): | 450 (rotor 3 - 100 rpm) | |
| Pot life at +23°C (mins.): | 90 | |
| Application temperature range: | from +5°C to +35°C | |
| Set to foot traffic at +23°C (hours): | 24 | |
| Complete hardening at +23°C (hours): | 24 | |
| FINAL PERFORMANCE | | |
| Tensile strength after 7 days at +23°C + 14 days at +50°C (N/mm ²): | 5 | |
| Maximum deformation after 7 days at +23°C + 14 days at +50°C (%): | 110 | |
| Tear strength after 7 days at +23°C + 14 days at +50°C (N/mm): | 15 | |
| Shore A hardness after 7 days at +23°C + 14 days at +50°C: | 45 | |

applied within the maximum workability time (approximately 90 minutes at +23°C). If a more non-slip finish is required, add 10% in weight of **Mapefloor Filler** hard-wearing, micro-grained fillers to **Mapecoat PU 15** while mixing with a blender at slow speed.

Application of the product

Apply **Mapecoat PU 15** with a roller or airless spray gun. If the finishing product is applied with a roller, we recommend applying it in criss-cross strokes and to make sure that it is applied evenly to get a nice, attractive finish.

Cleaning

Tools used to mix and apply the product may be cleaned with alcohol or thinners for polyurethane before it hardens. Once hardened, it may only be removed mechanically from tools and blenders.

CONSUMPTION

Consumption of **Mapecoat PU 15** depends on the roughness of the substrate and is generally from 0.2-0.3 kg/m² at +15°C to +25°C.

Particularly rough substrates and lower application temperatures increase consumption rates and setting and hardening times considerably. For severely damaged substrates, we recommend repairing them with a suitable product beforehand.

PACKAGING

Mapecoat PU 15 is supplied in metal drums. Component A: 6 kg drum. Component B: 4 kg drum.

STORAGE

Mapecoat PU 15 may be stored for up to 12 months in its original packaging in a covered, dry area at a temperature of between +15°C and +25°C.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapecoat PU 15 components A and B are inflammable. We recommend taking the

normal precautions for handling inflammable products, to avoid smoking and to use the product in areas where there are no naked flames or sparks.

Mapecoat PU 15 component B is harmful and may cause sensitisation in those subjects sensitive to such substances if inhaled or if it comes into contact with the skin. When applying the product, we recommend using protective clothing, gloves and safety goggles and to work only in well-ventilated areas. If the product comes into contact with the eyes or skin, wash immediately with plenty of clean water and seek medical attention.

Mapecoat PU 15 component A is also hazardous for aquatic life. Do not dispose of this product in the environment. For further and complete information about a safety use of our product please refer to our latest version of the 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

All relevant references for the product are available upon request and from www.mapei.com

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