MAPECOAT PU 20 N

Two-component coloured aliphatic polyurethane topcoat for membranes from the Purtop range







WHERE TO USE

Mapecoat PU 20 N is a coloured protective topcoat for membranes from the **Purtop** range with high level of elasticity and excellent resistance to abrasion.

TECHNICAL CHARACTERISTICS

Mapecoat PU 20 N is a two-component, solvent-based, aliphatic polyurethane topcoat developed in the MAPEI research laboratories with the following characteristics:

- elasticity, which makes it suitable for coating membranes from the **Purtop** range;
- resistant to UV rays and atmospheric agents;
- good hydrolysis stability;
- highly attractive shiny finish;
- easy to clean and resistant to the growth of mould and fungus;
- available in various RAL colours.

FURTHER ADVANTAGES OF THE RAL 9003 VERSION (highly reflective white)

Mapecoat PU 20 N RAL 9003 has been specifically formulated to offer high values of reflectance and thermal emissivity and a solar reflectance index (SRI) of 108.

Mapecoat PU 20 N RAL 9003 may be used to create “Cool Roofs”, or light coloured roofs that reduce the “heat island” effect, as well as considerably reduce the working temperature of the actual roof. In so doing, living comfort inside buildings is significantly improved.

Mapecoat PU 20 N RAL 9003 complies with Sustainable Sites Credit 7.2 - Heat Island Effect, of the sustainable building protocol LEED v4.1.

RECOMMENDATIONS

- Only apply **Mapecoat PU 20 N** if the temperature of the substrate is at least 3°C higher than dew point.

- Apply **Mapecoat PU 20 N** within 24 hours of applying membranes from the **Purtop** range.
- If the product is used in contact with chlorinated water, the permissible chloride content is between 0.2 and 3.5 mg per litre of water.

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 areas, dust, dirt, grease, oil and any other material or substance that could affect adhesion of the finish to the substrate.

When applying **Mapecoat PU 20 N** by spray on polyurethane membranes from the **Purtop** range which have been installed for over 24 hours, roughen the surfece by sanding (remove all dust with a vacuum cleaner). Then apply **Primer R30** one-component polyurethane primer.

Preparation of the product

Prepare **Mapecoat PU 20 N** with an electric mixer. To prepare the mix, blend the two components separately with an electric mixer at low-speed, pour the contents of component B into the container of component A and mix for a few minutes until they are thoroughly blended; make sure you only prepare an amount that can be used within the maximum workability time (approximately 60 minutes at +23°C).

If a higher degree of non-slip finish is required, add micronized polyamide **Mapecoat Filler** to **Mapecoat PU 20 N** at a rate of 7% of the weight of component A while mixing at low-speed.

Application of the product

Apply two coats of **Mapecoat PU 20 N** with a roller, making sure the total consumption rate is never less than 0.3 kg/m².
If the topcoat is applied with a roller, it is recommended to spread it out evenly and apply it in criss-cross strokes to get a nice, attractive finish.

CLEANING TOOLS

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

CONSUMPTION

0.15-0.2 kg/m² per coat.

In general, the consumption rates below are for a seamless film on a flat surface and will be higher on uneven substrates.

PACKAGING

Mapecoat PU 20 N is available in metal drums comp. A = 12.9 kg and comp. B = 2.1 kg.

STORAGE

Mapecoat PU 20 N may be stored for 12 months in its original packaging in a covered, dry area at a temperature of +5°C to +35°C.

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.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY		
	component A	**component B**
Consistency:	liquid	liquid
Colour:	according to RAL colour available	neutral
Density (g/cm³):	1.25	1.07
Dry solids content (%):	71	75
Brookfield viscosity at +23°C (mPa·s):	1350 (rotor 4 - 50 RPM)	320 (rotor 3 - 50 RPM)

APPLICATION DATA (at +23°C and 50% R.H.)	
Mixing ratio:	comp. A : comp. B = 4.3 : 0.7
Consistency of mix:	liquid
Density of mix (g/cm³):	1.20
Brookfield viscosity of mix (mPa·s):	1200 (rotor 4 - 50 rpm)
Pot-life of mix (mins.):	approx. 60
Application temperature:	+10°C to +35°C
Set to foot traffic (h):	24

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.

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