

MAPECOAT 4 LVT

Two-component aliphatic, anti-slip polyurethane finish in water dispersion for LVT



WHERE TO USE

Transparent protective matt (10 gloss) or semi-gloss (30 gloss) finish for LVT floor and wall coverings. Provides a non-slip finish with high resistance to wear on LVT flooring in residential and commercial environments, including areas subjected to high volumes of pedestrian traffic.

TECHNICAL CHARACTERISTICS

Mapecoat 4 LVT is a two-component, water-based, 100% polyurethane, aliphatic (non yellowing) finish.

Product properties

- Slip resistance in compliance with DIN 51130 and AS 4586: R11.
- Slip resistance (barefoot) in compliance with DIN 51097 and AS 4586: A+B.
- Slip resistance in compliance with EN 13036-4 (pendulum test): dry: 90; wet: 55 (class P5 according to AS 4586).
- Slip resistance (method B.C.R.): leather, dry surface (μ): 0.56; rubber, dry surface (μ): 0.74; rubber, wet surface (μ): 0.81.
- High resistance to abrasion and streaks.
- Resistant to ultraviolet rays; does not yellow.
- Protects LVT floors from ultraviolet rays.
- Seals joints in LVT floor and wall coverings that are splashed or need to be cleaned frequently.
- Odourless.
- Easy to apply.
- Solvent-free.
- EMICODE EC1 (very low emission).
- Harmless for floor installers and end users.

Mapecoat 4 LVT resists attack from the main strains of bacteria (Escherichia Coli, Staphylococcus Aureus, MRSA, Pseudomonas Aeruginosa), as it is tested according to the method described in the standard ISO 22196 "Measurement of antibacterial activity on plastics and other non-porous surfaces".

Mapecoat 4 LVT is an anti-slip polyurethane finish for internal areas, specifically designed to provide long-term protection and to be resistant to cleaning cycles and to the spread of mould. Such characteristics are proven by passing the most stringent tests in accordance with the UNI 11021 standard.

Mapecoat 4 LVT is able to resist different washing agents (active chlorine products, alkaline degreasers, acid-based descalers) and disinfection agents in compliance with EN ISO 2812-1 standard.

When used in combination with **Ultrabond Eco MS 4 LVT**, silylated polymer-based reactive adhesive (or the thixotropic version **Ultrabond Eco MS 4 LVT/Wall**), along with the most suitable substrate preparation products and sealants for these types of application, it forms a complete, safe system for installing LVT in damp environments, including walls and floors in shower cabins.

RECOMMENDATIONS

- Do not use on external surfaces.
- Use at temperatures between +10°C and +35°C.

- Use only clean containers and tools.
- Completely remove all traces of previous treatments in order to obtain an even finish.
- Protect treated surfaces from direct sunlight and currents of air for the first 3 hours after application.

APPLICATION PROCEDURE

Preparation of the floor

The surface must be clean and dry and have no traces of oil, wax or any other contaminant. Remove any remains or traces of adhesive that could affect adhesion from the surface with a red or green **Ultracoat Pad**.

Preparation and application of the product

Shake component A before use and pour the product into a suitable clean tray. Add component B at a ratio of comp. A : comp. B = 5 : 1 (by weight) and mix thoroughly until completely blended. Apply the mix within 2 hours from blending. Leave the product to stand for 5-10 minutes before applying one coat by mean of a short-pile roller (such as **Ultracoat Roller T3** or **T5**) or the airless spray system.

CLEANING

Tools and residuals of **Mapecoat 4 LVT** may be cleaned with water while the product is still fresh. Once hardened, the product may only be removed mechanically.

CONSUMPTION

First coat: 80-100 g/m².

PACKAGING

Box containing 1.2 kg (A+B) kit.

STORAGE

12 months in its original, sealed packaging in a dry place. Protect from freezing weather. For transport at low temperatures, use vehicles with temperature-controlled units.

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
Consistency:	liquid	liquid
Colour:	milky white	transparent-colourless
Density (g/cm ³):	1.025	1.075
EMICODE:	EC1 - very low emission	
APPLICATION DATA (at +23°C and 50% R.H.)		
Mixing ratio:	5 : 1	

Viscosity part A+B (Ford Cup nr. 4):	50 sec.
Dust dry:	30
Touch dry:	50
Overlaying (if required):	min. 2 h - max. 48 h (After more than 48 hours, the surface will need to be adequately prepared with a red or green Ultracoat Pad)
Set to light foot traffic:	16 h
Ready for use (also in contact with water in shower):	24 h

FINAL PERFORMANCE

Gloss level (approximate value):	10, 30
Slip resistance according to DIN 51130 and AS 4586:	R11
Barefoot slip resistance according to DIN 51097 and AS 4586:	A+B
Slip resistance according to DIN 13036-4 (pendulum test):	dry: 90 wet: 55 (class P5 according to AS 4586)
Slip resistance (method B.C.R.): - leather, dry surface (μ): - rubber, dry surface (μ): - rubber, wet surface (μ):	0.56 0.74 0.81

Type of test	Measurement method	Results and conformity to requirements	
Dirt pick-up:	UNI 10792	$\Delta L \leq 3.0$	test passed
Smell:	UNI 11021 Appendix A	≤ 1.0	test passed
Resistance to washing/rinsing:	UNI 10560	> 5000	test passed
Mould resistance:	UNI 11021 Appendix C	≤ 1.0	test passed
Resistance to washing agents (active-chlorine products, alkaline degreasers, acid-based de-scalers):	UNI EN ISO 2812-1	no alteration	test passed
Resistance to disinfection agents:	UNI 11021 Appendix D	no alteration	test passed

RESISTANCE TO BACTERIA (IMSL test report)

Strain of bacteria	Measurement method	Reduction from initial inoculum	Product performance
Staphylococcus aureus:	ISO 22196	$\geq 99.9\%$	test passed
Escherichia coli:	ISO 22196	$\geq 99.52\%$	test passed
Methicillin resistant Staphylococcus aureus (MRSA):	ISO 22196	$\geq 99.9\%$	test passed
Pseudomonas aeruginosa:	ISO 22196	$\geq 99.9\%$	test passed

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

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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.

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