

Nivapol Polem A MC

Clear Aliphatic PU Top Coat

Product description

Polem A MC is a two component, clear aliphatic polyurethane coating. It provides excellent abrasion resistance, improved scratch resistance and a clear, mat finish.

Fields of application

Polem A MC is designed for use as a matt durable topcoat for flooring systems. Please refer to the individual system data sheets.

Features and benefits

- Supplied pigmented or transparent
- Solventfree
- Consistent, slightly textured matt finish
- Durable
- Improves scratch resistance and abrasion resistance
- UV-resistant
- Good adhesion to non-porous substrates
- Low viscosity
- Easy to clean and maintain
- Very low emissions

Substrate preparation

The surface to be applied Polem A MC must be clean and dry. Application should be made within 24 hours after installation of the sub layer.

Application

Polem A MC is supplied in prepacked units. Before mixing, precondition both A and B components to a temperature of approximately 15 to 20°C. Pour the entire contents of part B into the container of part A. Mix with a low speed (ca.300 rpm) electric drill and paddle for at least 3 minutes until homogeneous. Scrape the sides and the bottom of the container several times during mixing to ensure complete mixing. Keep the mixing head submerged to avoid entrapping air. Do not work out of the original container. Decant the mixed material into a fresh container and remix for another minute. Always work wet-in-wet otherwise you risk getting visible roller marks. Use a max. 40 cm wide short haired roller and start in the middle of one of the short sides of the floor. Dip the roller in the mixed material and apply a strip of Polem A MC parallel to the wall next to one of the corners. Dip the roller in the material again and apply as a path from the starting point and out of the other corner. Go back and repeat these step while overlapping the first track with a few centimetres.

With a new roller scroll backwards without stopping from one corner to the next. Offset roller with 10 to 20 cm and roll to the opposite wall without stopping. Always roll in same direction to avoid visual differences.

By using this method, the period between overlaps should not exceed 1-4 minutes, and visible roller marks will be minimized.

Depending on the application method and the consumption, Polem A MC appears with a slightly structured surface. This has no influence on the final properties of the coating.

The curing time of the material is influenced by the ambient, material and substrate temperatures. At low temperatures, the chemical reactions are slowed down; this lengthens the pot life, open time and curing times. High temperatures speed up the chemical reactions thus the time frames mentioned above are shortened accordingly. To fully cure, the material, substrate and application temperature should not fall below the minimum.

The temperature of the substrate must be at least 3°C above the dew point both during the application and for at least 8 hours after application (at 15°C).

Consumption

Typically 0.1–0.2 kg/m². Do not exceed the recommended use.

Packaging Polem A MC is supplied in 10 kg units.

Shelf life Minimum 12 months stored in original containers under dry conditions at a temperature between 15 – 20°C. Do not expose to direct sunlight.

Contact details

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Mixing ratio A:B	By weight 3.75 : 1
Mixed density at 23°C	1.10 g/cm ³
Mixed viscosity at 20°C	600 mPas
Working time at 23°C	15 min.
Ready for traffic at 23°C	3 – 8 hours
Fully cured at 23°C	24 hours
Substrate temperature	min 5°C max 30°C
Max relative humidity at 20°C	max 85%

Technical data cured material

Data	Methods	Result
Thickness		50-100 micron
Shore D Hardness	DIN 53505	NA
Tensile Strength	DIN 53504	NA
Elongation at Break	DIN 53504	NA
Crack bridging ability		NA
Temperature resistance		Max 90°C
Waterpenetration		NA
Chemical resistance		see separate data
Puncture Resistance	ASTM E154	NA
Adhesion to concrete	BS/EN 24614	NA
Abrasion resistance (Taber)	EN 1504-2	<1000 mg
Impact resistance	EN 1504-2	NA
Fire classification	EN 1504-2	NA

The above figures are intended as a guide only and should not be used as a basis for specifications

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