Denpur™ MC-W

Polyurethane Matt coat

DenCoat™
Tomorrows Floors Today

Product Datasheet

DESCRIPTION
Denpur™ MC-W is a two component, matt aliphatic polyaurethane coating. It provides excellent abrasion resistance, improved scratch resistance and a matt finish.

FEATURES AND BENEFITS
- 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

FIELDS OF APPLICATION
Denpur™ MC-W is designed for use as a matt UV stabile durable topcoat for polyurethane and epoxy coating systems.

SUBSTRATE
The surface to be applied **Denpur™ MC-W** must be clean and dry.
Application should be made within 24 hours after installation of the sub layer.

APPLICATION
Denpur™ MC-W is supplied in prepacked units. Before mixing, **Denpur™ MC-W** should be homogenized by gentle stirring. 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 **Denpur™ MC-W** 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 steps 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, **Denpur™ MC-W** 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
Denpur™ MC-W: Typically 0.1– 0.2 kg/m^2 per layer.
Do not exceed the recommended use.

CLEANING AGENT
Tools must be cleaned immediately after use with **Dencoat™ Tool Cleaner** or other suitable solvent.

PACKAGING
Denpur™ MC-W is supplied in 4.55 kg.
Denpur™ MC-W is used with 0.45 kg **Denpur™ UV Hardener**.

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

Technical data for Liquid material

Property	Method	Values
Mixing Ratio A:B		4.55 kg : 0.45 kg
Mixed density		1.07 kg/l
Mixed Viscosity at 23°C	Brookfield DV-II	100 cP
Working time at 23°C		20 minutes
Ready for traffic at 23°C		4 hour
Fully cured 23°C		24 hours
Substrate temperature		Min 5°C max 30°C
Max relative humidity		Max 85%

Technical data cured material

Property	Method	Values
Thickness		0.05 - 0.1 mm
SHORE D hardness	DIN 53505	n.a.
Tensile strength	DIN 53504	
Elongation at Break	DIN 53504	>50%
Crack bridging ability		1 mm
Temperature resistance		Max 90°C
Water penetration		Impervious
Chemical Resistance		See separate datasheet
Adhesion to concrete	BS/EN 24614	>1,5 MPa
Abrasion resistance (Taber)	EN 1504-2	<50 mg
Impact resistance	EN 1504-2	Class II
Fire classification	EN 1504-2	n.a.

CE

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MC-W - 001

EN 13813 SR-AR1-B1,5-IR4

Synthetic resins for internal uses
(Application in accordance with the newest technical information)

Reaction to fire:	n.a.
Release of corrosive substances (Synthetic Resin Screed):	SR
Water permeability:	NPD [2)]
Wear resistance (Abrasion Resistance):	< AR 1 [3)]
Bond strength:	> B 1,5
Impact resistance:	< IR 4
Sound insulation:	NPD [2)]
Sound absorption:	NPD [2)]
Thermal resistance:	NPD [2)]
Chemical resistance:	NPD [2)]

CE-labelling

1) Last two digits of the year in which the ce marking was affixed.

2) NPD = No performance determined.

3) Refers to a smooth surface without broadcasting.

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