

# PRODUCT DATA SHEET

# MPU® COATINGS M04T (Economical self-leveling)

Indoor decoration and industrial two-component polyurethane/polyurea floor self-leveling

## PRODUCT DESCRIPTION

MPU® COATINGS M04T is a two-part, solvent free, very low VOC emission

### 使用範圍

MPU® COATINGS M04T may only be used by experienced professionals.

- Tough and smooth wearing layer, suitable for MPU® COATINGS toughness system
- MPU® COATINGS M04T spread decorative sheet tough polyurethane industrial flooring to improve friction
- MPU® COATINGS M04T smooth tough PU industrial flooring
- Particularly suitable for hospitals, schools, sales premises, showrooms, entrance halls, lobbies, open plan offices, museums and light to medium heavy industrial uses
- For indoor use only

## CHARACTERISTICS / ADVANTAGES

- One-time molding and self-leveling
- Very low VOC emissions ▪ Solvent-free
- Good physical resistance
- Easy to apply
- Economical and practical
- Easy to maintain
- Good elasticity and toughness
- Adding aggregate creates a non-slip surface
- Economical version of M04T-V, not suitable for light-colored systems

## PRODUCT INFORMATION

<b>Chemical Base</b>	PUR	
<b>Packaging</b>	Part A	14 kg containers
	Part B	7 kg containers
	Part A+B	21.0 kg ready to mix units
<b>Shelf Life</b>	12 months from date of production.	
<b>Storage Conditions</b>	Products must be stored in original packaging in a dry environment between +5 ° C and +30 ° C.	
<b>Appearance / Colour</b>	Resin - part A	Colored liquid
	Hardener - part B	Brown transparent liquid
<b>Available in standard shades: Base material for spot tinting. Off-white, grey, green, blue shades. Bright pastel colors available on request.</b>		



Density	Mixed Resin: 1.4 kg/l All Density values at +23 °C	
Solid content by mass	~ 100 %	
Solid content by volume	~ 100 %	
<b>TECHNICAL INFORMATION</b>		
Shore D Hardness	~ 60–70 (14 days / +23 °C)	
Tensile Strength	~ 19 N/mm <sup>2</sup> (14 days / +23 °C)	(GB 22374)
Elongation at Break	~28% (14 days / +23 °C)	(GB 22374)
Tensile adhesion strength	> 1.5 N/mm <sup>2</sup> (failure in concrete) >3.0N/mm <sup>2</sup> (aluminum)	(GB 22374)
Chemical Resistance	MPU® COATINGS M04T 7 always has to be sealed with pigmented topcoat.	Therefore, refer to chemical resistance of the used topcoat.

### SYSTEM INFORMATION

**Systems** Seamless and smooth low-VOC tough polyurea self-leveling floor in specified colors MPU® COATINGS M04T

**APPLICATION INFORMATION** Please refer to the product supporting materials: primer EW02T, which normally does not require colored topcoat for sealing. Optional flat topcoat M06T-V enhances the surface effect.

Mixing Ratio	Part A : part B = 14:7 (by weight)	
Consumption	~ 1.4 kg/m <sup>2</sup> /mm	
Layer Thickness	2.80 kg/m <sup>2</sup> - film thickness ~ 2.0 mm Refer to the respective System Data Sheet.	
Ambient Air Temperature	+10 ° C min. / +30 ° C max.	
Relative Air Humidity	80 % r.h. max.	
Dew Point	Beware of condensation! The substrate and uncured floor must be at least 3 ° C above dew point to reduce the risk of condensation or blooming on the floor finish.	
Substrate Temperature	+10 ° C min. / +30 ° C max.	
Substrate Moisture Content	Moisture content < 4% pbw Test method: professional tester, CM-test method or oven drying method. According to ASTM, no rising water vapor required (polyethylene sheet)	
Pot Life	Temperature	Time
	+10 °C	~ 45 minutes
	+20 °C	~ 30 minutes
	+30 °C	~ 25 minutes
Curing Time	Before overcoating MPU® COATINGS M04T allow:	
	<b>Substrate temperature</b>	<b>Minimum                      Maximum</b>
	+10 °C	24 hours                      72 hours
	+20 °C	18 hours                      48 hours
	+30 °C	16 hours                      36 hours
	Times are estimates and may be affected by environmental conditions, especially temperature and relative humidity. If the waiting time exceeds, please polish the exposed surface of MPU® COATINGS M04T to achieve mechanical adhesion between the layers of MPU® COATINGS	

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Applied Product Ready for Use

<u>Temperature</u>	<u>Foot traffic</u>	<u>Full cure</u>
+10 °C	~ 24 hours	~ 72 hours
+20 °C	~ 18 hours	~ 60 hours
+30 °C	~ 16 hours	~ 48 hours

## VALUE BASE

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## FURTHER DOCUMENTS

### Substrate quality and preparation

Please refer to Method Statement: Floor System Surface Assessment and Preparation

### construction instructions

Please refer to the MPU COATINGS method statement: Flooring Systems

### Maintain

Please refer to MPU® COATINGS cleaning mechanism

## LIMITATIONS

- Maximum relative humidity during application and curing of 80%
- Do not apply MPU® COATINGS M04T on substrates subject to rising moisture.
- Freshly applied MPU® COATINGS M04T must be protected from moisture, condensation and moisture for at least 24 hours. Uncured material will bubble when in contact with water
- During use, be careful not to let sweat fall into MPU® COATINGS M04T, which can be worn on the head and wrist straps
- If heating is required, please use an electric heater system. Do not use gas, gasoline, paraffin or other fossil fuel heaters. These heaters will produce large amounts of CO<sub>2</sub> and H<sub>2</sub>O water vapor, which may adversely affect the surface treatment.

## ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

### DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF VOC

According to the EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA / j type sb) is 500 g/l (Limits 2010) for the ready to use product.

The maximum content of MPU® COATINGS M04T is < 500 g/l VOC for the ready to use product.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

The surface must be clean, dry and free of any contaminants such as dirt, oil, grease, coatings and surface treatments. Before applying the product, completely remove all dust, loose and brittle materials from the surface, using a vacuum cleaner. The pull-out strength shall not be less than 1.5 N/mm<sup>2</sup>. If in doubt, do a zone test first.

### MIXING

Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 2 minutes until a uniform mix has been achieved. To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix. Over mixing must be avoided to minimise air entrainment.

### APPLICATION

Prior to application, confirm substrate moisture content, relative humidity and dew point.

Pour out MPU® COATINGS M04T and apply evenly using a serrated spatula, roller, or mechanical spray. Use a claw roller to roll in both directions to ensure uniform thickness and remove trapped air.

### CLEANING OF TOOLS

Clean all tools and application equipment with Thinner C immediately after use. Hardened and/or cured material can only be removed mechanically.

### LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

### LEGAL NOTES

The technical information mentioned above, especially the suggestions on the construction and use of MPU COATINGS products, are completely based on MPU COATINGS's current knowledge and experience with this product. All MPU COATINGS products must be properly stored and handled under normal conditions. and use. In practice, materials, base materials and actual site conditions are quite different. The above technical information and other written or provided suggestions cannot provide any construction warranty or product suitability in any individual case, or any Legal liability. Users of MPU COATINGS products must abide by the patent rights of MPU COATINGS products.

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