

MasterTop TC 941

The innovative topcoat with exceptional cleanability and scratch resistance for hard wearing solutions

PRODUCT DESCRIPTION

MasterTop TC 941 is a high solid, non-solvented, low emission, pigmented 2K-hybrid polyurethane top coat which cures to a semi-glossy finish.

FIELDS OF APPLICATION

MasterTop TC 941 is designed, for use as a wear and scratch resistant top coat in industrial environment on epoxy based or/and hard polyurethane systems, i.e. MasterTop 1912 and MasterTop 1913.

FEATURES AND BENEFITS

- New generation of PU topcoat with high performances
- Semi-glossy finish
- NMP, APEO, VOC, glycol- and solvent free
- Very low emission (according AgBB)
- Abrasion resistant
- Extremely good cleanability
- Improves scratch and wear resistance
- High hiding power even by low consumption
- UV- stable
- Easy to clean: low maintenance costs
- High durability
- Durable aesthetics

SUBSTRATE PRE-TREATMENT

The coating to which MasterTop TC 941 is applied should be clean and dry. Application should take place within the recoat intervals of the coating to which it is to be applied. The substrate temperature should be at least 3K above the dew point.

APPLICATION METHOD

MasterTop TC 941 is supplied in working packs which are pre-packaged in the exact ratio. Before mixing, precondition both A and B components to a temperature of approximately 15 to 25°C. Pre-mix Part B. Pour the entire content of Part A into Part B. **DO NOT MIX BY HAND.**

Mix with a mechanical drill and paddle at a low speed (ca. 300 rpm) for at least 3 minutes. Scrape the sides and the bottom of the container several times to ensure complete mixing. Keep the mixer blades submerged in the coating to avoid introducing air bubbles. **DO NOT WORK OUT OF THE CONTAINER USED FOR MIXING.** After proper mixing to a homogeneous consistency pour the mixed Parts A

and B into a fresh container and mix for another minute. It is important to avoid dry edges by always working wet in wet when overlapping otherwise roller marks will be visible in the final finish. The application method consists in 3 steps. Spread MasterTop TC 941 on the base coat using a rubber squeegee. With an 11 mm length hair microfiber roller, spread smoothly the material again cross-wise. After that, walking on the previous layer with special shoes, finish the application with an 8 mm length hair nylon roller (50 – 60 cm width). For more information, please refer to the specific installation manual.

MasterTop TC 941 cures with a light and characteristic structure. 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. After application, the material should be protected from direct contact with water for approx. 24h (at 15°C).

Note: Because of the good cleaning ability of MasterTop TC 941, the use and application of an initial care is not required.

CONSUMPTION

pigmented: ca. 0,10 – 0,12 kg/m²

Caution: Please do not dilute the top coat with water. Do not exceed the maximum consumption.

CLEANING AGENT

Re-usable tools should be carefully cleaned immediately after use with MasterTop CLN 40 or solvent naphtha. Once the material has cured mechanical cleaning is required which is made easier by immersion of the tools in MasterTop CLN 40.

PACKAGING

MasterTop TC 941 pigmented is supplied in 10-kg working packs.

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COLOURS

MasterTop TC 941 is available in a limited range of RAL colours. For more information, please consult your local sales office.

STORAGE

Store in original containers, under dry conditions and a temperature between 15–25°C. Do not expose to direct sun-light. Protect from frost. For maximum shelf life under these conditions, see "Best before...." label.

EU REGULATION 2004/42 (DECOPAINT GUIDELINE)

This product conforms to the EU directive 2004/42/EG (Deco-Paint directive) and contains less than the maximum allowable VOC Limit (Stage 2, 2010). According to the EU directive 2004/42, the maximum allowable VOC content for the Product Category IIA / i type sb is 500 g/l (Limit: Stage 2, 2010). The VOC content for MasterTop TC 941 is < 25 g/l (for the ready to use product).

WARNING AND PRECAUTIONS

In its cured state, MasterTop TC 941 is physiologically non-hazardous. The following protective measures should be taken when working with the material:

Wear safety gloves, goggles and protective clothing. Avoid contact with the skin and eyes. In case of eye contact, seek medical attention. Avoid inhalation of the fumes.

When working with the product, do not eat, smoke or work near a naked flame. For additional references to safety-hazard warnings, regulations regarding transport and waste management, please refer to the relevant Material Safety Data Sheet. The regulations of the local trade association and/or other authorities, regulating safety and hygiene of workers handling polyurethane and isocyanides must be followed.

CONTACT

Should you require any further information, please do not hesitate to contact your local sales consultant or take directly contact with us:

Performance Flooring

BASF Construction Chemicals Europe AG
Hardmatt 434
CH-5082 Kaisten
Tel: +41 62 868 93 60
Fax: +41 62 868 93 59

BASF Coatings GmbH
Donnerschweer Str. 372
D-26123 Oldenburg
Tel: +49 441 3402 251
Fax: +49 441 3402 333

Mitglied der



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Technical data*				
Mix ratio			by weight	1 : 9
Solid content		pigmented	%	ca. 99
Density	pigmented at 23°C	Part A	g/cm ³	1,18
		Part B	g/cm ³	1,31
		mixed	g/cm ³	1,30
Viscosity	pigmented at 23°C	Part A	mPa.s	400
		Part B	mPa.s	1100
		mixed	mPa.s	1000
Working Time		at 20°C	min.	30
Ambient and substrate temperatures			°C	min. 10
			°C	max. 30
Re-coating interval		at 20°C	h	min. 12
			h	max. 24
Light pedestrian traffic	at 12°C/50% r.h.		h	24
	at 23°C/50% r.h.		h	12
	at 30°C/50% r.h.		h	10
Fully cured		at 23°C	d	7
Max. relative humidity			%	min. 30
			%	max. 90
Surface properties			Semi-glossy, light structure	

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

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CE MARKING ACCORDING TO EN 13813

	
BASF Coatings GmbH Donnerschweer Str. 372, D-26123 Oldenburg	
16	
394101	
EN 13813: 2002	
EN 13813: SR-B1,5-AR1-IR4	
Synthetic resin screed for internal uses	
Essential characteristics	Performance
Fire behavior	Bfl-s1
Release of corrosive substances	SR
Water permeability	NPD
Wear resistance	< AR 1
Bond strength	> B 1,5
Impact resistance	> IR 4
Impact sound insulation	NPD
Sound absorption	NPD
Heat insulation	NPD
Chemical resistance	NPD
Slip/Skid resistance	R9
Emissions behavior	AgBB, AFSSET conform

NPD = No performance determined
 Performance determined in System **MasterTop 1912**

SUSTAINABILITY

In our approach to develop and produce sustainable products and solutions to our customer, we are glad to inform you that MasterTop TC 941 is not only registered in the DGNB (German Sustainable Building Council) Navigator platform but also exhibits a DGNB Navigator label.

The DGNB Navigator Label allows us to demonstrate our commitment to sustainability and gives you all the transparency and required information about our flooring products to build sustainable projects.

For further information, please do not hesitate to contact us and/or to visit the following DGNB websites:

<http://www.dgnb.de/en/>

www.dgnb-navigator.de/Navigation/Home?language=en



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Disclaimer:

In view of widely varying site conditions and fields of application of our products, this technical data sheet is meant to provide general application guidelines only. This information is based on our present knowledge and experience. The customer is not released from the obligation to conduct careful testing of suitability and possible application for the intended use. The customer is obliged to contact the technical help-line for fields of application not expressly stated in the technical data sheet under "Fields of Application". Use of the product beyond the fields of application as stated in the technical data sheet without previous consultation with BASF and possible resulting damages are in the sole responsibility of the customer.

All descriptions, drawings, photographs, data, ratios, weights i.e. stated herein can be changed without advance notice and do not represent the condition of the product as stipulated by contract. It is the sole responsibility of the recipient of our products to observe possible proprietary rights as well as existing laws and provisions. The reference of trade names of other companies is no recommendation and does not exclude the use of products of similar type. Our information only describes the quality of our products and services and is no warranty. Liability is accepted for incomplete or incorrect particulars in our data sheets only in the event of intent or gross negligence, without prejudice to claims under product liability laws.