

MasterTop[®] TC 943

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

DESCRIPTION

MasterTop TC 943 is a pigmented, non solvented, two-component topcoat producing a light stable, tough and durable surface with a lightly structured satin-mat finish that has exceptional scratch, impact and wear resistance.

TYPICAL APPLICATIONS

MasterTop TC 943 is designed for use as a light stable wear resistant finish for rigid and semi-rigid **MasterTop** systems, such as **MasterTop 1324**, **MasterTop 1205**, **MasterTop 1210**, **MasterTop 1230**. Refer to individual system technical datasheets.

ADVANTAGES

- New generation topcoat with high performance
- Based on Xolutec technology
- Structured finish improves slip resistance
- Satin-mat finish
- VOC and solvent free
- Improves scratch and wear resistance
- High hiding power even at low consumption

and therefore, economic in use

- UV stable
- Easy to clean: low maintenance costs
- High durability
- Aesthetically pleasing

PACKAGING AND COLORS

MasterTop TC 943 is supplied as a 10 kg pack.

Part A - 3 kg

Part B - 7 kg

Total unit weight 10 kg

MasterTop TC 943 is available in a wide range of RAL colours. For more information, please consult your local sales office.

TYPICAL PROPERTIES*

Mix ratio			3:7 by weight	
Solid content		pigmented	93.9 %	
Density	Pigmented at 23°C	Part A	1.36 g/cm ³	
		Part B	1.22 g/cm ³	
		mixed	1.25 g/cm ³	
Viscosity	Pigmented at 23°C	Part A	2400 mPa.s	
		Part B	850 mPa.s	
		mixed	2050 mPa.s	
Working time	at 20°C		30 min	
Ambient and substrate temperature			min. 10°C	max. 30°C
Re-coating interval	at 23°C 50% r.h.		min. 20 h	max. 48 h
Light pedestrian traffic	at 23°C / 50% r.h.		24 h	
Fully cured	at 23°C		7 d	
Max. relative humidity			min. 30 %	max. 90%
Surface properties		satin-mat		

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

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APPLICATION GUIDELINES

SUBSTRATE PRE-TREATMENT

The coating to which **MasterTop TC 943** 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.

Do not apply when the humidity exceeds 90%. Ensure that the substrate temperature is 3°C higher than the dew point.

MIXING

MasterTop TC 943 is supplied in working packs which are pre-packaged in the exact ratio. Before mixing, precondition both Part A and Part B to a temperature of approximately 15 to 25°C. Pre-mix Part A and Part B separately. Pour the entire contents of Part A into Part B, scratching the sides of the pail with a spatula or scraper. **DO NOT MIX BY HAND.**

Mix with a mechanical drill and paddle at a low speed (ca. 300 rpm) for 2 minutes. The diameter of the paddle (d) should be higher than half the diameter (D) of the bucket ($d > D/2$).

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 Part A and Part B into a fresh container and mix for another minute. It is recommended to apply first corners, edges, etc. and in general those areas with a more difficult access with a small roller or brush. 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.

PLACING / APPLICATION

The application method consists in 3 steps. Immediately after the mixing is finished, pour **MasterTop TC 943** directly onto the floor and spread using a rubber squeegee. **DO NOT ALLOW MATERIAL TO STAND IN THE BUCKET.** Spread in the same direction to ease the organization during the following steps of the process. Afterwards, spread the material with an 11 mm length hair microfiber roller (50 cm width), perpendicular to the direction of squeegee application, ensure all areas are covered

and that there is a uniform appearance. After that, finish the application using again an 11 mm length hair microfiber roller (50 cm width) in the opposite direction to the previous step finishing always in the same direction starting from the same edge.

For application method please refer to the Master Builders Solutions Method Statement or contact the Master Builders Solutions Technical Services Department.

MasterTop TC 943 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. 24 hours (at 15°C).

Note: Because of the good cleaning ability of **MasterTop TC 943**, the use and application of an initial care is not required.

Do not dilute the topcoat with water or solvent. Do not exceed the maximum consumption.

CLEANING

Re-usable tools should be carefully cleaned immediately after use with a suitable thinner (Xylene / MEK / Acetone) Once the material has cured mechanical cleaning is required which is made easier by immersion of the tools in a suitable Xylene thinner.

COVERAGE

Approx. 0.12 kg/m²/coat
(*one coat required)

*Contact technical services department for further advice.

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STORAGE AND SHELF LIFE

Store in original containers, under dry conditions and a temperature between 15-25°C. Do not expose to direct sunlight. 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 500g/l (Limit: Stage 2, 2010). The VOC content for **MasterTop TC 943** is <25 g/l (for the ready to use product).

HEALTH AND SAFETY

In its cured state, **MasterTop TC 943** 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.

XOLUTEC DESIGNED FOR CONSTRUCTION




Xolutec is a smart way of combining complementary chemistries to solve the problems of challenging technical environments with a cross-linked interpenetrating network (XPN).

By controlling chemistry of the polymer chains and crosslinking density, Xolutec's properties can be adjusted to meet the required product performance, such as different degrees of toughness and flexibility. Xolutec is very low in volatile organic compounds (VOC) and is quick and easy to apply. It cures fast at low temperature, is insensitive to moisture and tolerates a wide variety of different site conditions.

MasterTop TC 943 is based on the Xolutec Technology.

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CE-marking according to EN 13813

	
Master Builders Solutions Deutschland GmbH Donnerschweer Str. 372, D-26123 Oldenburg	
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394302	
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

NPD = No performance determined

® = Registered trademark of the MBCC Group in many countries.
 * Properties listed are based on laboratory controlled tests.



STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by Master Builders Solutions either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Master Builders Solutions, are responsible for carrying out procedures appropriate to a specific application.

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