

# MasterSeal TC 374

## 2C-EP Top Coat, pigmented, for car park systems

### MATERIAL DESCRIPTION

MasterSeal TC 374 is a pigmented, low viscous, lightly elasticized, 2C epoxy top coat. It cures to a tough, hard wearing, glossy finish.

### AREAS OF APPLICATION

MasterSeal TC 374 is primarily used as the top coat in certain MasterSeal Traffic car park systems.

### FEATURES AND BENEFITS

- high wear resistance
- lightly elasticised
- attractive finish
- easy to clean and maintain
- low viscosity
- easy to apply

### APPLICATION METHOD

#### (a) Surface Preparation

The coating to which MasterSeal TC 374 is to be applied must be clean and dry and free from oil, grease and loose material and any other substance which may impair adhesion. Application should take place within the re-coat intervals of the coating to which it is to be applied.

#### (b) Mixing

MasterSeal TC 374 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. Pour the entire contents of Part B into the container of Part A. **DO NOT MIX BY HAND.**

Mix with a mechanical drill and paddle at a very low speed (approx. 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 ORIGINAL CONTAINER.**

After proper mixing to a homogeneous consistency pour the mixed Parts A and B into a fresh container and mix for another minute.

#### (c) Application

MasterSeal TC 374 should be spread evenly with a squeegee followed by back rolling.

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.

Following application the material should be protected from direct contact with water for approx. 16 hours. The

temperature of the substrate must be at least 3 K above the dew point both during the application and for at least 16 hours after application (at 15 °C).

### COVERAGE

Approx. 0,5 - 0,8 kg/m<sup>2</sup>  
(Please refer to the system build-up data sheet.)

### FINISHING AND CLEANING

Re-usable tools must be cleaned carefully with MasterTop CLN 44 or with e.g. isopropanol.

### PACKAGING

MasterSeal TC 374 is supplied in 30 kg working packs.

### COLOUR

MasterSeal TC 374 is available in a wide range of RAL colours. For more information, please consult your local sales office.

### STORAGE / SHELF LIFE

Store in original containers under dry conditions at a temperature between 15 – 25 °C. Do not expose to direct sunlight. For maximum shelf life under these conditions see "Best before....." label.

### WATCH POINTS

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 / j is 500 g/l (Limit: Stage 2, 2010). The VOC content for MasterSeal TC 374 is < 500 g/l (for the ready to use product).

### HANDLING / PRECAUTIONS

In its cured state, MasterSeal TC 374 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 epoxy resins must be followed.

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Product data*				
Properties		Standard	Data	Unit
Chemical base		-	Epoxy resin	-
Mixing ratio		A : B	100 : 20	-
Density	Part A Part B mixed	-	1,60 1,06 1,43	g/cm <sup>3</sup> g/cm <sup>3</sup> g/cm <sup>3</sup>
Viscosity	Part A Part B mixed	-	2300 300 1500	mPas mPas mPas
Working time (30 kg Unit)	at 10 °C at 20 °C at 30 °C	-	60 35 20	min min min
Re-coating interval	at 10 °C  at 20 °C  at 30 °C	-	min. 24 max. 3 min. 8 max. 3 min. 3 max. 2	h d h d h d
Fully cured	at 10 °C at 20 °C at 30 °C	-	7 5 3	d d d
Substrate and ambient temperatures		-	min. 8 max. 35	°C °C
Permissible relative humidity		-	max. 75 max. 85	%

## Technical data after curing\*


Properties	Standard	Data	Unit
Shore-D-hardness	after 14 days	72	-
Taber abrasion	after 7 days	55	mg

\* 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 (EN 1504-2)

	
1119	
Master Builders Solutions Deutschland GmbH Donnerschweer Str. 372, D-26123 Oldenburg	
18	
337401	
EN 1504-2:2004	
Surface protection products – Coating EN 1504-2: ZA.1d, ZA.1e, ZA.1f and ZA.1g	
Linear shrinkage	NPD
Compressive strength	NPD
Abrasion resistance	≤ 3000 mg
Permeability to CO <sub>2</sub>	Sd > 50
Permeability to water vapour	NPD
Capillary absorption and permeability to water	< 0,1 kg/(m <sup>2</sup> xh <sup>0,5</sup> )
Adhesion after thermal compatibility freeze-thaw cycling with de-icing salt immersion	≥ 1,5 N/mm <sup>2</sup>
Resistance to severe chemical attack class I:3d without pres-	Loss of hardness < 50 %
Crack bridging ability	NPD
Impact resistance	Class I
Adhesion by Pull-off test	≥ 1,5 N/mm <sup>2</sup>
Reaction to fire	Class E
Slip/Skid resistance	NPD

NPD = No performance determined. Performance determined in system build up **MasterSeal Traffic 2231**.

## CE-MARKING (EN 13813)

	
Master Builders Solutions Deutschland GmbH Donnerschweer Str. 372, D-26123 Oldenburg	
18	
337401	
EN 13813: 2002	
Synthetic resin screed for use internally in buildings EN 13813: SR-B1,5-AR1-IR4	
Essential characteristics	Performance
Fire behaviour	NPD
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	NPD
Emissions behaviour	NPD

NPD = No performance determined. Performance determined in system build up **MasterSeal Traffic 2231**.

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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 helpline 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 Master Builders Solutions 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.

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