

# MasterSeal<sup>®</sup> TC 258

1K-PU top coat, moisture curing, UV- and weather resistant

## DESCRIPTION

**MasterSeal TC 258** is a low solvent, pigmented, single component, moisture curing, UV and weather resistant, protective top coat. It is based on high quality aliphatic polyurethane pre-polymers. Unlike conventional moisture curing polyurethane coatings, **MasterSeal TC 258** can be applied at high thicknesses without foaming.

## AREAS OF APPLICATION

**MasterSeal TC 258** has a number of applications including the top coat in some MasterSeal Traffic car park deck coating systems, slip resistant top coats for roofing applications and in balcony waterproofing. **MasterSeal TC 258** is used in following systems:

**MasterSeal Traffic 2205 (MasterSeal Traffic 2500HD)**

**MasterSeal Traffic 2264**

**MasterSeal Traffic 2259**

## FEATURES AND BENEFITS

- excellent UV- and weather resistant
- elastic
- good abrasion resistance
- can be applied at high thicknesses without foaming
- one component
- easy to apply

## APPLICATION METHOD

### Surface Preparation

The coating to which **MasterSeal TC 258** is applied should be clean and dry and free of any substances which may impair adhesion. Application should take place within the re-coat intervals of the coating to which it is to be applied.

### Mixing

**MasterSeal TC 258** is a single component material. Prior to application, the temperature of the material should be in the range of 15–25 °C. Some settling of the pigments may occur on standing. **MasterSeal TC 258** should, therefore be well stirred before use.

### Application

**MasterSeal TC 258** should be spread evenly with a squeegee followed by back rolling.

The curing time of the material is influenced by the humidity and the ambient and substrate temperatures. At low humidity and low temperatures, the chemical reaction is slowed down; this lengthens the curing time and the re-coating intervals. At high humidity and high temperatures, the chemical reaction is accelerated thus the time frames mentioned above are shortened accordingly.

Following application, the material should be protected from direct contact with water for approx. 5 hours. The temperature of the substrate must be at least 3 K above the dew point both during the application and for at least 5 hours after the application (at 15 °C).

## COVERAGE

Approx. 0,5 - 0,8 kg/m<sup>2</sup>

## FINISHING AND CLEANING

Re-useable tools should be cleaned carefully with Cleaner 40 or e.g. solvent naphtha.

## PACKAGING

**MasterSeal TC 258** is supplied in 24 kg working packs.

## COLOUR

**MasterSeal TC 258** is available in following colours: approx. RAL 1001, 1015, 6021, 7001, 7016, 7023, 7030,7032, 7035, 7038, 7040. For further colours 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 258** is < 500 g/l (for the ready to use product).

## HANDLING / PRECAUTIONS

In its cured state, **MasterSeal TC 258** is physiologically non-hazardous. The following protective measures should be taken when working with this 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 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 regarding safety and hygiene of workers handling polyurethanes and isocyanates must be observed.

# MasterSeal<sup>®</sup> TC 258



PRODUCT DATA			
Properties	Standard	Data	Unit
Chemical base	-	Polyurethane	-
Mixing ratio	A : B	single component	-
Solids content	-	60	%
Density (at 23 °C)	-	1.3	g/cm <sup>3</sup>
Viscosity (at 23 °C)	-	1000	mPas
Re-coating interval	at 10 °C	min. 8	h
	at 20 °C	max. 3	d
		min. 5	h
		max. 2	d
	at 30 °C	min. 4	h
		max. 2	d
Fully cured	at 23 °C	5	d
Substrate and ambient temperatures		min. 5	°C
		max. 30	°C
Permissible relative humidity		min. 40	%
		max. 90	%

## Product data after curing\*

Properties	Standard	Data	Unit
Tensile strength	DIN 53504	4.5	N/mm <sup>2</sup>
Elongation	DIN 53504	200	%

\*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)		CE-MARKING (EN 13813)	
			
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Master Builders Solutions Deutschland GmbH Donnerschweer Str. 372, D-26123 Oldenburg		Master Builders Solutions Deutschland GmbH Donnerschweer Str. 372, D-26123 Oldenburg	
08		08	
345801		345801	
EN 1504-2:2004		EN 13813:2002	
Surface protection products – Coating EN 1504-2: ZA.1d, ZA.1e, ZA.1f and ZA.1g		Synthetic resin screed for use internally in buildings EN 13813: SR-B1,5-AR1-IR4	
Linear shrinkage	NPD	Essential characteristics	Performance
Compressive strength	NPD	Fire behaviour	Efl
Abrasion resistance	≤ 3000 mg	Release of corrosive sub- stances	SR
Permeability to CO2	Sd > 50	Water permeability	NPD
Permeability to water vapour	Class II	Wear resistance	< AR 1
Capillary absorption and permeability to water	< 0,1 kg/(m <sup>2</sup> xh <sup>0,5</sup> )	Bond strength	> B 1,5
Adhesion after thermal compatibility freeze-thaw cycling with de-icing salt immersion	≥ 1,5 N/mm <sup>2</sup>	Impact resistance	> IR 4
Resistance to severe chemical attack class I:3d without pres-	Loss of hard- ness < 50 %	Impact sound insulation	NPD
Crack bridging ability	B 4.2 (-20° C)	Sound absorption	NPD
Impact resistance	Class I	Heat insulation	NPD
Adhesion by Pull-off test	≥ 1,5 N/mm <sup>2</sup>	Chemical resistance	NPD
Reaction to fire	Cfl-s1	Slip/Skid resistance	NPD
Slip/Skid resistance with : MasterSeal TC 258 MasterSeal TC 681	Class III Class II	Emissions behaviour	NPD
NPD = No performance determined. Performance determined in system build up <b>MasterSeal Traffic 2205</b> .		NPD = No performance determined. Performance determined in system build up <b>MasterSeal Traffic 2205</b>	

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## 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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