

# MasterSeal<sup>®</sup> M 881

2K-PU wear coat, for car park deck and waterproofing systems

## DESCRIPTION

**MasterSeal M 881** is a wear coat for use in car park deck waterproofing systems. It is solvent free, 2-component polyurethane and is slightly thixotropic so that it can be applied to ramps without the on-site addition of a thixotropic as well as to horizontal surfaces. It has a low consumption for economic use and exhibits an excellent bond to the waterproofing membrane. **MasterSeal M 881** is slightly elastic so that it can accommodate some movement of the deck. It has a tenacious hold onto the broadcast aggregate providing a hard wearing, skid resistant surface.

## TYPICAL APPLICATIONS

**MasterSeal M 881** is primarily intended for use in car park deck waterproofing system **MasterSeal Traffic 2205**. **MasterSeal M 881** can also be used in other systems where its excellent mechanical properties can be used to advantage.

## ADVANTAGES

- Excellent bond to **MasterSeal** waterproofing membranes
- Tenacious hold to broadcast aggregate
- Slightly thixotropic for application to ramps
- Withstands loads imposed by traffic
- Resistant to fuels, battery acid and hydraulic oils
- Low consumption

## PACKAGING AND COLORS

**MasterSeal M 881** is supplied in 24kg working packs and available in White.

## APPLICATION GUIDELINES

### SURFACE PREPARATION

The preparation of the substrate and the use of the appropriate primer are of paramount importance. All surfaces to which **MasterSeal M 881** is applied should be sound, clean and dry and free from oil or grease, loose particles and any other substances which may impair adhesion. For substrate pre-treatment prior to the primer application see primer technical data sheet.

**Important: MasterSeal M 881** is unsuitable for use as a tie coat to cementitious overlays.

### MIXING

**MasterSeal M 881** is supplied in working packs which are pre-packaged in the exact ratio. Before mixing, precondition both the 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 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 bladed fully submersed 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 clean container and mix for a further minute.

### PLACING / APPLICATION

**MasterSeal M 881** should be spread with a squeegee and finished by 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

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

## COVERAGE / YIELD

Consumption of **MasterSeal M 881** is 0.5-0.7kg/m<sup>2</sup>.

In some countries the minimum thickness of the wear coat is defined. In these cases the consumption can be higher than the values quoted above.

*The above consumption figures are intended as a guide only and may be higher on very rough or porous substrates*

## TYPICAL PROPERTIES\*

Properties	Result
Chemical base	Polyurethane
Mixing ratio A : B	100 : 46
Density	1.08g/cm <sup>3</sup>
Viscosity	1400mPas
Working time	30 mins
Recoating interval	10°C 20°C 30°C
	Min 12 hours Min 9 hours Min 6 hours
Substrate and ambient temperatures	min. 5°C max. 30°C
Permissible relative humidity	max. 80%

## Technical data after curing\*

Properties	Result
Shore D Hardness after 28 days	65
Tensile strength DIN 53504	16N/mm <sup>2</sup>
Elongation DIN 53504	50%

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

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## CLEANING

Re-useable tools should be cleaned carefully with a suitable thinner (Xylene / MEK / Acetone).

## STORAGE AND SHELF LIFE

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

## WATCHPOINTS

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 500g/l (Limit: Stage 2, 2010). The VOC content for **MasterSeal M 881** is <500g/l (for the ready to use product).

## HEALTH AND SAFETY

In its cured state, **MasterSeal M 881** 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 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 isocyanates must be followed.

® = Registered trademark of the MBCC Group in many countries.

\* Properties listed are based on laboratory controlled tests.


# MasterSeal® M 881

## CE-MARKING (EN 1504-2)

	
1119	
Master Builders Solutions Deutschland GmbH Donnerschweer Str. 372, D-26123 Oldenburg	
08	
488101	
EN 1504-2:2004	
Surface protection product - coatings EN 1504-2: ZA.1d, ZA.1e, ZA.1f and ZA.1g	
Abrasion resistance	≤ 3000 mg
Permeability to CO <sub>2</sub>	Sd > 50
Permeability to water vapour	Class II
Capillary absorption and permeability to water	< 0.1 kg/(m <sup>2</sup> ·h <sup>0.5</sup> )
Thermal compatibility after freeze-thaw cycling	≥ 1.5 N/mm <sup>2</sup>
Resistance to severe chemical attack	Reduction of hardness < 50 %
Crack bridging ability	B 4.2 (-20° C)
Impact resistance	Class I
Adhesion strength by pull-off test	≥ 1.5 N/mm <sup>2</sup>
Reaction to fire	C <sub>fi</sub> -s1
Skid resistance with <b>MasterSeal TC 258</b> with <b>MasterSeal TC 681</b>	Class III Class II

NPD = No performance determined. Performance determined in system build up **MasterSeal Traffic 2205**

## CE-MARKING (EN 13813)

	
Master Builders Solutions Deutschland GmbH Donnerschweer Str. 372, D-26123 Oldenburg	
08	
488101	
EN 13813: 2002	
Synthetic resin screed for use internally in buildings EN 13813: SR-B1,5-AR1-IR4	
Essential characteristics	Performance
Fire behavior	Efl
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 behavior	NPD

NPD = No performance determined. Performance determined in system build up **MasterSeal Traffic 2205**

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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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**Disclaimer:** the TUV mark relates to certified management system and not to the product mentioned on this datasheet



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