

Two-component, UV-resistant polyaspartic elastomeric finish of MasterSeal Traffic 2257, 2272, 2218, 2264, 2205 and 2389 systems.

### **MATERIAL DESCRIPTION**

MasterSeal TC 681 is a two-component, colored, elastic, high-gloss, fast-curing polyaspartic coating.

### FIELDS OF APPLICATION

MasterSeal TC 681 is mainly indicated as a finish for reinforced concrete floors in multi-storey car parks for both intermediate floors and roofs (MasterSeal Traffic 2257, 2272, 2218, 2264, 2205 and 2389 systems).

### FEATURES AND BENEFITS

MasterSeal TC 681 has the following peculiar characteristics:

- allows the flooring to be put back into operation very quickly (trafficable after 7 hours);
- crack bridging class A4 UNI EN 1504/2;
- resists the aggression of UV rays;
- has a high resistance to abrasion, "dirt pick-up" and impacts;
- withstands the aggressive action of petrol, diesel, acid from car batteries and de-icing salts.

For the technical characteristics, refer to the performance of the entire MasterSeal Traffic 2257, 2272, 2218, 2264, 2205 and 2389 system.

In compliance with the European Regulation (EU No 305/2011 and EU No. 574/2014) the product is provided with the CE marking both according to UNI EN 1504-2 and UNI EN 13813 and the relative DoP (Declaration of Performance).

### CONSUMPTION

0.5 - 0.9~kg /  $m^2.$  For more details, consult the systems MasterSeal Traffic 2257, 2272, 2218, 2264, 2205 and 2389

### PACKAGING

Component	Pack	Kg
А	Can	8,4
В	Can	5,6
Kit		14

### STORAGE

Store the product in a sheltered, dry place at a temperature anywhere between  $+5^{\circ}C$  and  $+30^{\circ}C$ .

Technical Data	
Packaging	A: 8.4 kg can
	B: 5.6 kg can
Mixing ratio	100 A / 67 B
Solid content	94%
Viscosity at 20°C	A + B: 700 mPas
Pot life	20°C: 25 minutes
Density	A + B: approx 1.39
	kg / liter
Trafficable	20°C: 7 hours
Walkable	20°C: 3 hours
Complete polymerization at 23°C	7 days
/ 50% RH	
Relative humidity tolerated	Max 85%



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## CHEMICAL TRANSPORTATION: CHEMICAL AGGRESSIVE AND RELATIVE GROUP UNI EN 13529

UNI EN 13529 6 7 7 7 7 7 9 9 9 9 9 9 9 9 9 9 9 9 9	Acetic anhydride         Maleic anhydride         Aniline         Antifreeze (ethylene glycol)         Benzene         Petrol, diesel and hydrocarbons         Biodiesel (transesterified lipids)         Butanol	UNI EN 13529 7 7 13 5 4a 4 4 7b
7 7 7a 7 9 9 9a 9a 9a 9a	Maleic anhydrideAnilineAntifreeze (ethylene glycol)BenzenePetrol, diesel and hydrocarbonsBiodiesel (transesterified lipids)Butanol	13 5 4a 4 7b
7 7a 7 9 9a 9a 9a 9a	Antifreeze (ethylene glycol)BenzenePetrol, diesel and hydrocarbonsBiodiesel (transesterified lipids)Butanol	5 4a 4 7b
7a 7 9 9a 9a 9a 9a	BenzenePetrol, diesel and hydrocarbonsBiodiesel (transesterified lipids)Butanol	4a 4 7b
7 9 9a 9a 9a	BenzenePetrol, diesel and hydrocarbonsBiodiesel (transesterified lipids)Butanol	4 7b
9 9a 9a 9a	Biodiesel (transesterified lipids) Butanol	7b
9a 9a 9a	Biodiesel (transesterified lipids) Butanol	
9a 9a	Butanol	
9a 9a		5
	Caprolactam (amide)	7
	Jet fuel	2
10	Kerosene	2
	Cvclohexane	4
		6a
9		6b
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		9a 4
	9a         10         9         10         9a         10         4         6b         7         12         13	10Chloroform9Benzoyl chloride10Calcium chloride9aSodium chloride9aCresoli10Detergents (acids)9aPhosphoric acid9aDichloromethane(methylenchloride)9aDimethylformamide9Hexane9aEthanol9aFormaldehyde (formalin)9aEthyl acetate glycol9aEthylene glycol9aEthylene glycol9aEthylene glycol9aEthylene glycol9aFormaldehydrxide9aCalcium hydroxide9aSodium hydroxide9aSodium hydroxide9aSodium hydroxide9aSodium hydroxide9aCalcium hydroxide9aSodium hydroxide9aSod



## Two-component, UV-resistant polyaspartic elastomeric finish of MasterSeal Traffic 2257, 2272, 2218, 2264, 2205 and 2389 systems.

Aggressive chemical	liquid group UNI EN 13529	Aggressive chemical	liquid group UNI EN 13529
Motor oil	3	Trichlorobenzene	6b
Paraffin	4	Trichlorethylene	6
Phenil Sulfuric Acid	9	Urea	12
Brine (sodium chloride)	12	White spirit (solvent)	4
Methyl salicylate	7a	Xylene	4
Detergents (alkaline)	11	Chlorinated water	12

### **CHEMICAL PERFORMANCE UNI EN 1504/2.**

### Class I: after 3 days of contact Shore reduction < 50%; Class II 28 days of contact Shore reduction < 50%;

### Class III 28 days of contact under pressure, Shore reduction < 50%

	Chemical aggressive groups UNI EN 13529	Test liquid	Performance Shore D
1	Petrol	47.5% by volume of toluene 30.4% by volume of isooctane 17.1% by volume of n-heptane 3% by volume of methanol 2% by volume of tertiary butanol	
2	Aviation fuel	<ol> <li>50.0% by volume of isooctane, 50.0% by volume of toluene</li> <li>Aviation petrol 100 LL NATO Code F-18</li> <li>Turbo fuel A-1 NATO code F-34 / F-35</li> </ol>	
3	Unused heating and diesel oil and engine and gear oils	80% by volume of n-paraffin (C12 - C18) 20% by volume of methylnaphthalene	
4	All hydrocarbons including groups 2 and 3 except: 4 a) and 4 b) and engine and gear oils used	60% by volume of toluene 30% by volume of xylene 10% by volume of methylnaphthalene	Classe II (24%)
4a	Benzene and benzene-containing blends (including 2 - 4 b)	30% by volume of benzene 30% by volume of toluene 30% by volume of xylene 10% by volume of methylnaphthalene	
4b	Crude oil	<ul> <li>10% by mass of isooctane</li> <li>10% by mass of toluene</li> <li>20% by mass of heating oil</li> <li>10% by mass of 1-methylnaphthalene (95% min.) 47.7% by mass of heavy oil</li> <li>0.2% by mass of thiophene (99%)</li> <li>0.3% by mass of dibenzyldisulfide</li> <li>0.5% by mass of dibutyldisulfide (97%)</li> <li>1.0% by mass of mixture of naphthenic acids (acid value 230)</li> <li>0.1% by mass of phenol</li> <li>0.2% by mass of pyridine mixed with 2% by mass of water</li> </ul>	
5	Mono and polyalcohols (up to 48% by volume of methanol), glycol ethers	48% by volume of methanol 48% by volume of isopropanol 4% by volume of water	
5a	All alcohols and glycol ethers (including 5)	Methanol	Classe I (37%)



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Cher	nical aggressive groups UNI EN 13529	Test liquid	Performance Shore D
6	Halogenated hydrocarbons [including 6 b)]	Trichlorethylene	
6a	All aliphatic halogenated hydrocarbons (including 6 and 6 b)	Dichloromethane	
6b	Aromatic halogenated hydrocarbons	Monochlorobenzene	
7	All organic esters and ketones (including 7 a)	50% by volume of ethyl acetate 50% by volume of methyl isobutyl ketone	
7a	Aromatic esters and ketones	50% by volume of salicylic acid methyl ester salicylate 50% by volume of acetophenone	
7b	Biodiesel	Biodiesel	
8	Aliphatic aldehydes	35% - 40% of formaldehyde solution	
9	Aqueous solutions of organic acids up to 10%	10% aqueous acetic acid	Classe I (20%)
9a	Organic acids (except formic acid) and their salts (in aqueous solution)	50% by volume of acetic acid 50% by volume of propionic acid	
10	Inorganic acids up to 20% and acid hydrolysis salts in aqueous solution (pH <6) except hydrofluoric acid and oxidizing acids and their salts	Sulfuric acid 20%	Classe II (8%)
11	Inorganic bases and their salts with alkaline hydrolysis in aqueous solution (pH> 8) except ammonium solutions and oxidizing solutions of salts (for example hypochlorite)	Sodium hydroxide 20%	Classe II (0%)
12	Solutions of inorganic non-oxidizing salts with pH = 6 - 8	Aqueous solution of sodium chloride 20%	Classe II (15%)
13	Amines and their salts (in aqueous solution)	35% by volume of triethanolamine 30% by volume of n-butylamine 35% by volume of N, N-dimethylaniline	Classe II (13%)
14	Aqueous solutions of organic surfactants	<ol> <li>3% of Protectol KLC 50; 2% of Marlophen NP 9.5; 95% water</li> <li>3% of Texapon N 28, 2% Marlipal O 13/80, 95% water</li> </ol>	
15	Cyclic and acyclic ethers	Tetrahydrofuran (THF)	
15a	Acyclic ethers	Ethyl ether	



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### **APPLICATION SHEET**

For every detail on correct application, always refer to the specific application guide "Application Manual of MasterSeal Traffic systems for waterproofing parking lots".

### **TEMPERATURE**

The application can take place when the ambient temperature is between 5 and  $40^{\circ}$ C.

### MIXING

Before mixing, bring components A and B to a temperature between 15 and 25°C.

Pour the entire contents of part B into the container of part A.

Hand mixing is not allowed. Mix with an electric propeller mixer at very low speed (approx. 300 rpm) for not less than 3 minutes.

Scrape the sides and bottom of the container several times to get a thorough mixing.

The mixer blades must always be immersed in the product to avoid introducing air bubbles. Do not work outside the original container.

### APPLICATION

Apply the material by spreading it with a rubber squeegee and then finished using a short-haired roller.

To obtain the best aesthetic effect, it is recommended to apply the product by crossing the coats.

### **TOOL CLEANING**

The tools used for mixing and applying the material can be cleaned with polyurethane thinner. Hardened material on tools and mixer can be removed mechanically

### WARNINGS

MasterSeal are products for professional use. For further information, consult the Master Builders Solutions Italia Spa area technician.

### SAFETY INSTRUCTION

For information on the correct and safe use, transport, storage and disposal of the product, consult the most recent Safety Data Sheet.

### **OTHER SERVICES**

For price analysis, specifications, supplementary brochures, references, reports and technical assistance, visit the website <u>www.master-builders-solutions.com/it-it</u> or contact <u>infomac@mbcc-group.com</u>.

Scan the QR code to visit the product page and download the latest version of this datasheet.





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Since 16/12/1992, Master Builders Solutions Italia Spa has been operating under a Certified Quality System compliant with the UNI EN ISO 9001 Standard. Furthermore, the Environmental Management System is certified according to the UNI EN ISO 14001 Standard and the Safety Management System is certified according to the UNI ISO 45001 Standard.

#### Master Builders Solutions Italia Spa

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Therefore, the customer is not exempted from the exclusive task and responsibility of verifying the suitability of our products for the intended use and purposes.

This version supersedes all the previous ones.