

Product Description

CMR-413.W/CMR-413.WM Antigrffiti Clear Coat (high-gloss/matt)



Version: V-2020-002



Characteristic:

CMR-413.W/CMR-413.WM is a water based clearcoat (2-component), its basic is polyurethane. This clearcoat provides a very high brilliance, abundance and high brightness. A problem-free processing and a high standing power in very good levelling are characteristics of this product. Due to its extremely high density of crosslinking this product provides a very good resistance against graffiti, different kinds of cleanser and chemicals. Therefore the surface is easy to clean. Apart from this the product offers an excellent UV protection.

This clearcoat is used in graphics market and also in the field of automotive, machines and apparatus construction, rail vehicles, cranes, diggers etc. to be coated with a high-quality coating and without solvent emissions.

Due to its simple workability and its huge application possibilities, this clearcoat provides an economic alternative compared to UV curable coating systems. In general the application is made by spraying or by screen printing.



Typical Data:

Basic:	aqueous polyurethane dispersion	
Colour:	yellowish	
Crosslinker:	CMR-613.W (2:1)	
Potlife:	2 - 3 hours (20 °C)	
Solubility:	miscible with deioned water	
Wet film:	60 - 80 µ	
Dry film:	30 - 40 µ	
Spreading rate:	15 - 20 qm/kg	
Solids content:	52 - 55 %	CMR-413.W
Solids content:	58 - 62 %	CMR-413.WM
Specific gravity/density (20 °C):	1.04 g/cm ³	CMR-413.W
Specific gravity/density (20 °C):	1.09 g/cm ³	CMR-413.WM
pH value:	not applicable	
Neutrality:	ammonia	
Viscosity at 20 °C (dynamic):	5000 mPa.s	
Volatiles/VOC:	approx. 10 %	

Suitable Substrates:

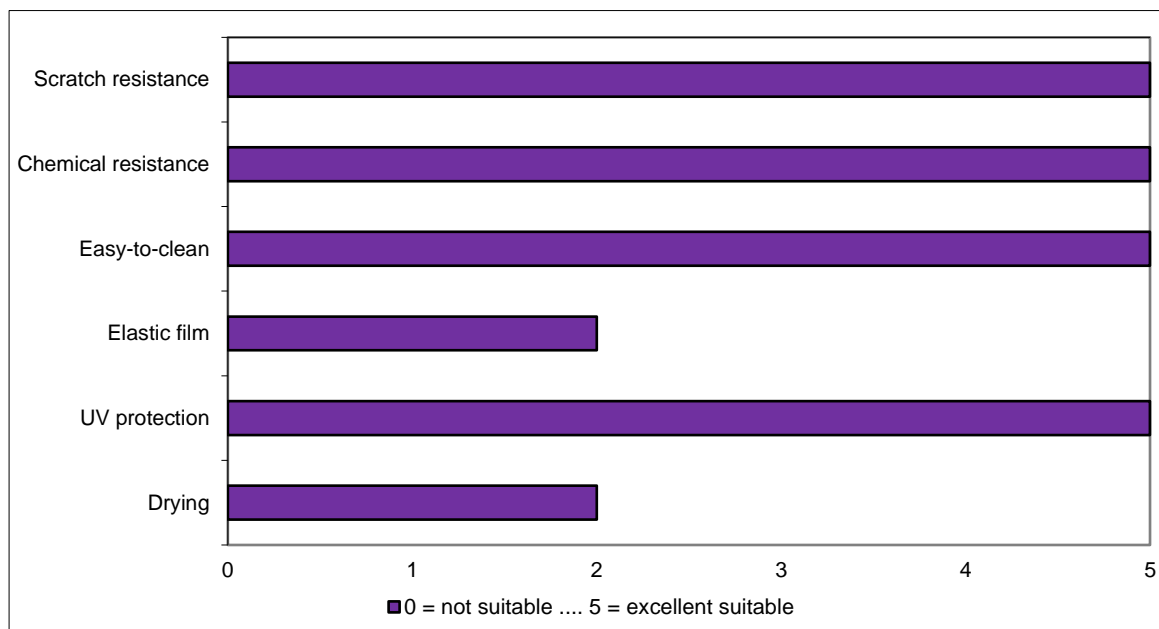
The product is used as a coating for different kinds of substrates (metals, plastics, mineral surfaces) for outdoor applications.

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Properties:

- Transparent
- High-gloss or matt
- Scratch resistance, mechanical properties, hard and abrasion resistant
- High creme and chemical resistance
- Excellent antigrffiti properties
- Heat resistant until 80 °C
- Easy-to-clean, polishable
- Excellent UV protection



Spreading Rate:

Solids content	Thickness wet g/m ²	Thickness dry g/m ²	Coated surface m ² /kg	kg for surface of 80 sqm
55%	60	33	17	4,8

Recommendation for end-use:

- Storage:

The product may be stored at least 6 months if kept in tightly closed container and below 25 °C.

Protect against cold.

Don't store and apply the product below +5 °C.

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- Application:

The product can be apply by usual methods: spraying, rolling and printing.
For spraying or automatic application further adjustment of viscosity can be necessary.
A dilution of max. 20 % water is possible.

<u>Spray gun:</u>	Viscosity:	18 - 22 s
	Dilution:	water
	Nozzle:	1.2 - 1.6 mm
	Pressure:	3 - 4 bar
	Spraying:	1 - 2

- Drying-Conditions:

The crosslinking process is reached by adding of the hardener.
It can be dried by room temprature and forced drying.

<u>Drying time (for 40 µ dry film):</u>
Dry at room temperature (20-25 °C) after 2-3 hours. After 5 hours the layer is dry-to-touch. Forced drying (60-80 °C) after 45 min., dry-to-touch after 1 hour.
After around one week the cross-linking process is finished and the ready surface has reached its definite chemical resistance and physical properties.

In all cases of CMR coating-systems, the stamp of the single characteristics depends very strongly on the respectively related underground (substrate and/or inks).
For this reason we recommend to make trials in every special case.