

# Product Description

## CMR-468/468.M 2C-Clear Coat for Tarpaulin EX-III (high-gloss/matt)



Version: V-2020-001



### Characteristics:

**CMR-468/468.M** is a water based two-component clear coat, its basic is polyacrylate polyurethane. It is to be cross-linked by CMR-640. The lacquer is used as high-quality, high-gloss/matt and high-flexible liquid laminate on digital printed PVC tarpaulins, vinyl-films and non-printed flexible surfaces too. Medias printed with pigmented solvent inks and UV inks (logos, lettering, pictures) are protected against attrition and scratches.

Coated surfaces achieve outstanding colour brilliance and easy-to-clean properties. Because of its water- and weather resistance, this protection film is used especially for outdoor applications e. g. for sealing large format billboards and truck side curtains and for their long-term protection against UV light.



In general the application is made by machines and liquid coater (Mayer bar).

### Typical Data:

Basic:	aqueous acrylatic polyurethane dispersion	
Colour:	milky white	
Crosslinker:	<b>CMR-640 (10:1)</b>	
Potlife:	3 - 4 hours (20 °C)	
Solubility:	miscible with deioned water	
Wet film:	70 - 80 µ	
Dry film:	20 - 30 µ	
Spreading rate:	10 - 15 sqm per kg	
Solids content:	32 - 38 %	
Specific gravity/density (20 °C):	not determined	
pH value:	7.5 - 8.5	
Neutrality:	ammonia	
Viscosity at 20 °C (4 mm DIN flow cup):	15 - 20 s	CMR-468
Viscosity at 20 °C (4 mm DIN flow cup):	20 - 25 s	CMR-468.M
Minimum film forming temperature (MFT):	0 °C	

### Suitable Substrates:

Plastic films: PVC  
Textiles/paper: Mesh, canvas, wallpaper  
With corona pre-treatment the system is suitable as a coating for all kinds of plastics.

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### (high-gloss/matt)



#### Properties:

Transparent, high-gloss or matt

High flexibility

Scratch resistance, mechanical properties, hard and abrasion resistant

High chemical resistance

Easy-to-clean, polishable

UV protection

Elastic film (over 200 %)

Blocking temperature 145 °C, cold stable until -20 °C

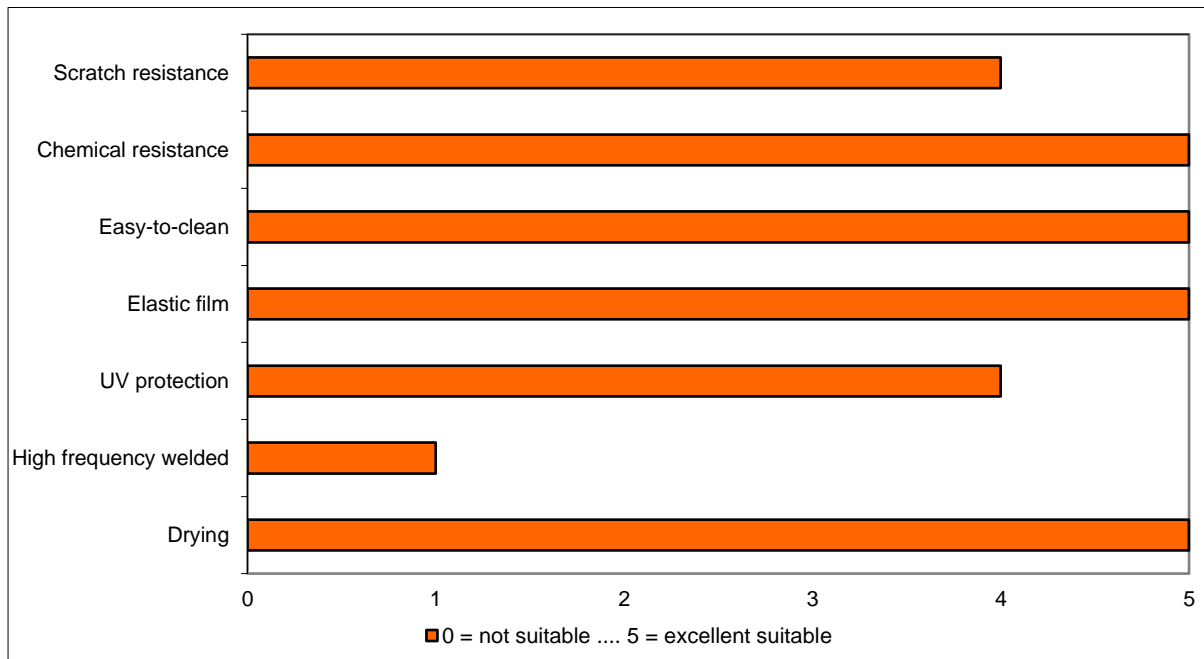
Plasticizer blocking feature

High frequency welded

The high-gloss version is suitable for thermoforming and embossing (short time thermostable up to 180 °C)

Without pre-treatment the system is suitable for all PVC and vinyl plastics.

With corona pre-treatment the system is suitable as a coating for all kinds of plastics.



#### Spreading Rate:

Solids content	Thickness wet g/m <sup>2</sup>	Thickness dry g/m <sup>2</sup>	Coated surface m <sup>2</sup> /kg	kg for surface of 80 sqm
40%	75	30	13	6

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**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.

**- Application:**

The product can be apply by usual methods: spraying, rolling and printing.  
The viscosity of the lacquer was adjust for manual application by roll (e. g. Velours).  
For spraying or automatic application further adjustment of viscosity can be necessary.  
A dilution of max. 5% water is possible.

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

**- Drying-Conditions:**

The laminate is a self-crosslinking product.  
It can be dried by room temperature and forced drying.

<b><u>Drying time (for 25 µ dry film):</u></b> Dry at room temperature (20 - 25 °C) after 30 - 45 min. After 12 hours the layer is dry-to-touch and can be rolled up. Forced drying (60 - 80 °C) after 60 s.  After around one week the cross-linking process is finished and the ready surface has reached its definite chemical resistance and physical properties.
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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.