

Product Description

CMR-475/CMR-475.M Eco Clear Coat for Films

(high-gloss/matt)



Version: V-2020-001



Characteristic:

CMR-475/CMR-475.M is a water based one-component clear coat (self-crosslinking), its basic is acrylate. It is used as liquid laminate on digital printed PVC tarpaulins, other vinyl films, canvas and non-printed flexible surfaces too.

Medias printed with pigmented solvent inks (logos, lettering, pictures) are protected against attrition and scratches. Coated surfaces achieve outstanding easy-to-clean properties. In general the application is made manually or by machines and liquid coater (Mayer bar).



Typical Data:

Basic:	aqueous acrylatic emulsion	
Colour:	milky white	
Solubility:	miscible with deionized water	
Wet film:	70 - 80 μ	
Dry film:	20 - 30 μ	
Spreading rate:	10 - 15 sqm per kg	
Solids content:	40 - 45 %	
Specific gravity/density (20 °C):	1.04 g/cm ³	
pH value:	7.0 - 8.0	
Neutrality:	ammonia	
Viscosity at 20 °C (4 mm DIN flow cup):	20 - 25 s	CMR-475
Viscosity at 20 °C (4 mm DIN flow cup):	15 - 20 s	CMR-475.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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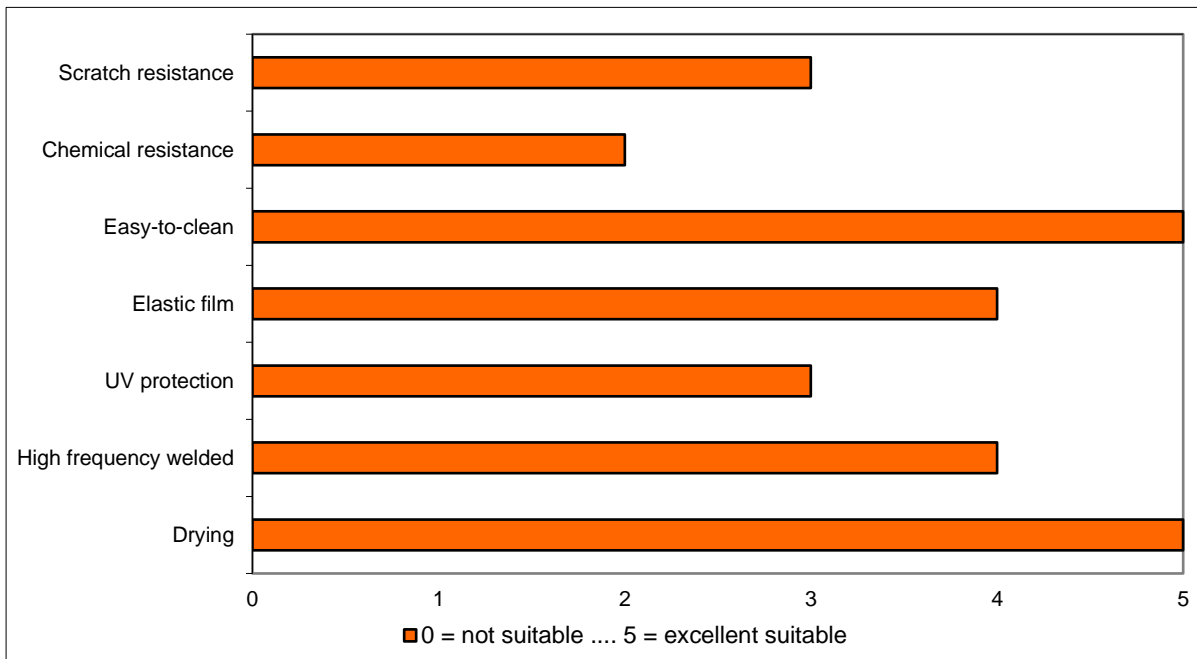
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Properties:

- 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
- Coated surfaces can be varnished after 12 hours
- 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 ²	Thickness dry g/m ²	Coated surface m ² /kg	kg for surface of 80 sqm
45%	75	33,75	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.

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

<u>Drying time (for 25 µ dry film):</u> 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 30 - 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.

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.