

Product Description

CMR-440 2C-Clear Coat for Tarpaulin - "hand use"



Version: V-2020-001



Characteristic:

CMR-440 is a water based clear coat (2-component), its basic is polyurethane. It is to be cross-linked by CMR-640. It is used as high gloss and high flexible liquid laminate on digital printed PVC tarpaulins and non-printed flexible surfaces too.

Medias printed with pigmented solvent inks, Latex and UV inks 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.

In general the application is made manually by roller.

Only for hand-use!



Typical Data:

Basic:	aqueous polyurethane dispersion
Colour:	milky white liquid
Crosslinker:	CMR-640 (10:1)
Potlife:	4 hours (20 °C)
Solubility:	miscible with deionized water
Wet film:	70 - 80 µ
Dry film:	20 - 30 µ
Spreading rate:	10 - 15 sqm per kg
Solids content:	30 - 35 %
Specific gravity/density (20 °C):	1.05 g/cm ³
pH value:	7.0 - 8.0
Neutrality:	ammonia
Viscosity at 20 °C (4 mm DIN flow cup):	12 - 18 s
Minimum film forming temperature (MFT):	0 °C

Suitable Substrates:

Plastic films: PVC, tarpaulins

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

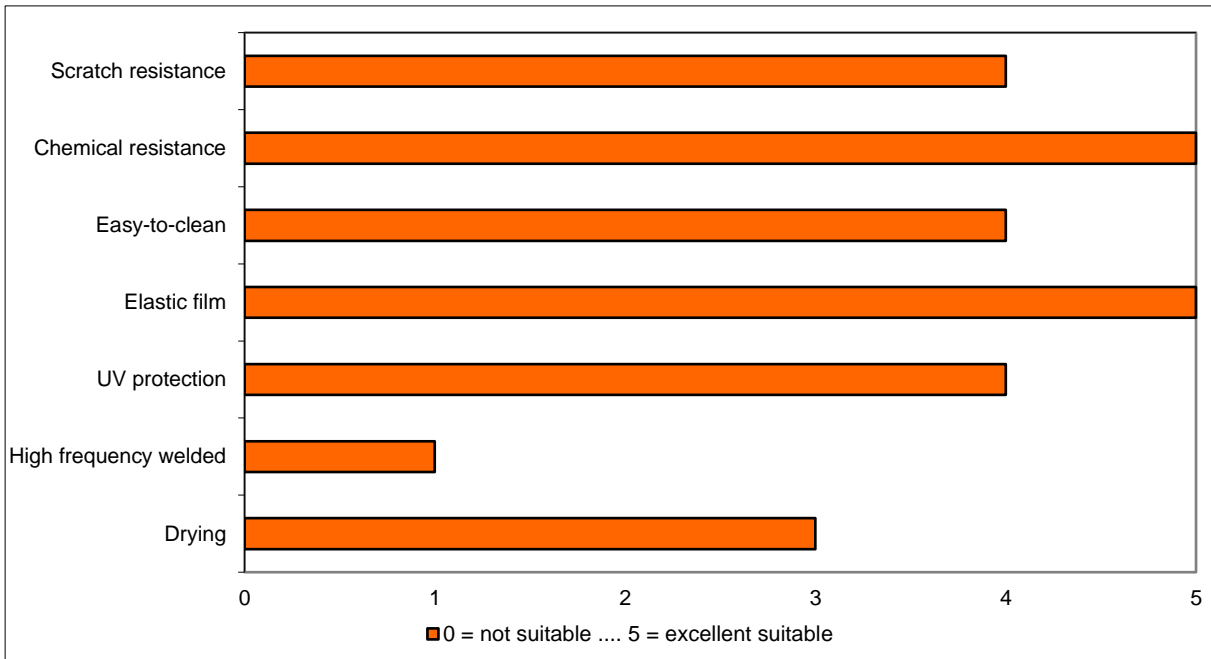
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Properties:

- 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
- 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
36%	75	27	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 crosslinking process is reached by adding of the hardener.

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 2 - 3 h.
After 16 - 20 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.