Product Description CMR-438 2C-Clear Coat for Tarpaulin - "hand use" (matt)



Version: V-2020-001

Characteristic:

CMR-438 is a water based clear coat (2-component), its basic is polyurethane. It is to be cross-linked by CMR-638. It is used as matt 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-638 (10:1)
Potlife: 6 - 8 hours (20 °C)

Solubility: miscible with deioned water

Wet film: $70 - 80 \ \mu$ Dry film: $20 - 30 \ \mu$

Spreading rate: 10 - 15 sqm per kg

Solids content: 30 - 35 %

Specific gravity/density (20 °C): 1.05 g/cm³

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

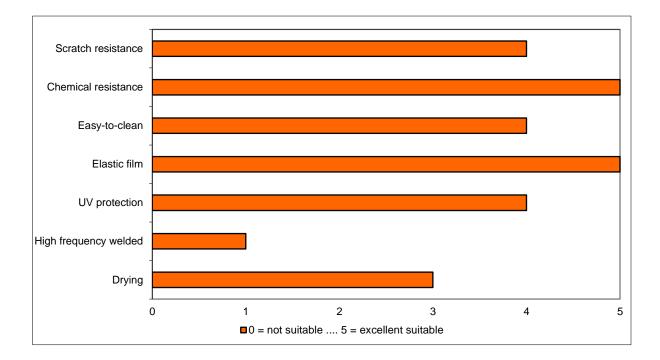
Plasticizer blocking feature

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	Thickness	Thickness	Coated	kg for
content	wet	dry	surface	surface
	g/m²	g/m ²	m²/kg	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 viscositiy 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.

Spray gun:	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 dryed by room temprature and forced drying.

Drying time (for 25 μ dry film):

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.