COATINGS GMBH
OBERFLÄCHENVEREDELUNGEN
NANO-LACKE
TRANSPARENTE LACKSYSTEME

Technical Bulletin
CMR-640 Crosslinker

Last Revision: 02.06.20 Version: V-2020-001
HR 1000

1. Charakteristic:

CMR-640 is a aliphatic polyisocyanat crosslinker, suitable for aqueous and solvent based systems.
The crosslinking process starts under huminity.

2. Applications:

In water based lacquers **CMR-640** improve water, alcohol, detergent, chemical, block and abrasion resistance. In PVC coatings to reduce plasticizer migration and improve stain resistance. In solvent based polymers to increase all sorts of resistance properties.
Generally to improve adhesion of water borne systems to non-polar substrates.
This crosslinker react at room temperature and therefore it can be used under air and forced drying conditions.

3. Typical Data:

Basic:	isocyanate hardener
Colour:	clear to yellowish
Solids content:	100%
Specific gravity/density (20 °C):	1.14 g/cm³
pH value:	not available
Viscosity at 20 °C (dynamic):	3500 mPa.s

4. Recommendation for end-use:

The crosslinker is adding up to the lacquer in a recommended concentration.
Use a mechanical stirring unit in order to adding up the hardener.
Use propeller mixer with 500 to 2,000 turns per minute, for deaeration.
Stirring only by hand is unsuitable to create a homogen mixture.
Stirring constantly while adding crosslinker slowly.
Stir carefully for at least 5 min at moderate speed in order to avoid air intake.
After stirring do not touch the mixture for 15 min.
The processing time of the mixture depends very strongly on the environment temperature.
It should lie between 18 °C and 30 °C.
Areas of dryed hardener can be cleaned with isopropyl alcohol (IPA).

Dried hardener can be removed with suitable polish remover.
Cleaning: Esters, Eheresters.
Our recommondation: CMR-914 Special Thinner.
Don´t use nitro thinner!
Warning: Open containers should be closed tightly. Hardener reacts at humidity.
If the hardener has been touched by humidity, then a reduction of gloss will be the result.

5. Storage:

The product may be stored at least 6 months if kept in tightly closed container and below 35 °C.
Protect against cold.
Don´t store and apply the product below +5 °C.
The crosslinking process starts under huminity.

6. Safety:

The Material Data Sheet informs on all data relevant to the safety of this product.
It contains information concerning classification, transport and storage of the product
and also further information regarding handling, surity and ecology.

7. Further Information:

These information reflect our current state of the knowledge and they are intended to inform on our products and its application possibilities. They cannot deduce any legally binding guarantee regarding specific properties of the products or their suitability for definite applications. Also they do not release the user to make test of our products concerning its suitability for the planned applications.
Rights regarding trademarks and patents also will have to be observed.

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