

Easaqua™ M 501

Description

- Easaqua™ M 501 is a water-dispersible aliphatic polyisocyanate. It does not contain any alkyl phenol ethoxylate (it is APEO free).
- It shows a lower viscosity and a lower hydrophilicity compared to Easaqua™ M 502

Suggested Uses

- Hardener of two-pack waterborne high performance polyurethane coatings on various substrates, like Wood (parquet flooring, kitchen & office furniture), Metal and Plastics.
- Solvent-free hardener of ultra-low VOC mat clearcoats or semigloss pigmented paints.

Specifications

Colour	≤ 60 HAZEN (APHA)
Viscosity at 25°C	700 to 1 500 mPa.s
NCO (on delivery form)	20.3 to 22.9 %
Solids content	> 98%
Hexamethylene diisocyanate monomer (HDI)*	< 0.5%

* measurement is done on the raw materials used to produce the final product
The analytical methods are available upon request

Physical Properties

Appearance	Clear liquid
Bulk density at 25°C	1145 kg/m ³ approx.
Flash point (closed cup)	> 150°C
Equivalent weight (on delivery form)	194 g approx.
Mixing in water	See safety instructions

Solubility

Soluble in esters, ketones, ether-esters and aromatic hydrocarbons. This product reacts with solvents containing hydroxyl groups, such as alcohols, glycol-ethers and water (in case of unsuitable use). It is recommended to use "urethane grade" solvents only for the dilution (with water content below 300 ppm).

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Applications

- Easaqua™ M 501 is usually used as a crosslinker of waterborne hydroxy functional polymers, especially polyurethanes dispersions (PUDs), polyacrylics or urethane-acrylics hybrids in various physical forms (solutions, emulsions or dispersions) to prepare 2K waterborne polyurethane formulations. Hydro-thinnable polyesters can also be used, even if they are usually more compatible with hydrophobic, low viscosity Tolonate™ HDT-LV or Tolonate™ HDT-LV2.
- Thanks to its low viscosity, Easaqua™ M 501 can be used to prepare "solvent-free hardener" in order to produce ultra low VOC coatings.

Packaging and transport

Packaging (please contact our sales team for more details)

- Deliveries of 900 kg net weight pallets (4 drums of 225 kg net weight).
- Other packaging: upon request

Transport

- Not regulated. For more precise details, please consult the safety data sheet

Storage conditions and shelf-life

- Easaqua™ M 501 is sensitive to moisture and should be kept in its sealed original container or in a volume tank under dry nitrogen blanketing at room temperature.
- A shelf life of 6 months is expected provided that the product is kept in its sealed original container at 25 °C.

Inflammability and safety instructions

- Before handling this product please refer to its safety data sheet as new technology requires new ways of handling products.

warning to users

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