

Technical Data Sheet

Revision Date: 2023-11-27

NO. PCS_0060

Name: WANNATE™ HT-100plus

Version: 3.0

Application

WANNATE™ HT-100plus (1,6-hexamethylene diisocyanate based polyisocyanate) is a solvent free aliphatic polyisocyanate based on hexamethylene diisocyanate (HDI), colorless to slightly yellowish clear liquid.

Equivalent Weight ~ 193

Density at 25 °C ~ 1.16 g/cm³

WANNATE™ HT-100plus can be used as the hardener component for lightfast two-component polyurethane coatings with high resistance to chemicals and weathering, very good gloss retention and outstanding mechanical properties. Preferred co-reactants are polyacrylates or polyester polyols.

The main applications for coatings based on WANNATE™ HT-100plus are automotive refinishing, transportation, industrial finishing and plastics.

Specification

Properties	Unit	Specification
NCO Content	%	21.70 ~ 22.20
Viscosity at 25 °C	mPa·s	1750 ~ 3250
Chromatic Number	APHA	≤ 40
HDI Content	%	<0.10

Package(s)

20 kg Metal drum

60 kg Metal drum

220 kg Metal drum

IBC & ISO TANK

Other packages available according to customer needs

Storage / Solubility

Storage in original container. Protect from moisture, heat and foreign material.

WANNATE™ HT-100plus is sensitive to moisture. Storage at higher temperatures may result in increasing of color and viscosity.

WANNATE™ HT -100 plus can be thinned with esters , ketones and aromatic hydrocarbons such as ethyl acetate , butyl acetate , methoxypropylacetate , acetone , methyl ethyl ketone, methyl isobutyl ketone, cyclohexanone, toluene, xylene, solvent naphtha 100 and mixtures thereof. Generally speaking, it has good compatibility with the solvents listed . However , the solutions formed must be tested for their storage stability. Only PU grade solvents should be used (max.0.05% water, absence of reactive groups such as hydroxyl or amino groups). Aliphatic hydrocarbons are unsuitable as solvents.

WANNATE™ HT-100plus is not recommended to be thinned below 40% solid content. Prolonged storage of a solution with a lower content may result in turbidity or sedimentation, even gelation.

Compatibility

WANNATE™ HT-100plus can be mixed with the following products: aliphatic polyisocyanates, polyester polyols, aromatic polyisocyanates and polyacrylates.

Shelf Life

WANNATE™ HT -100 plus is sensitive to moisture and must be stored in tightly sealed container. It can be stored for at least 15 months at temperatures between 0 and 30 °C.

For more information about safety and environment, please refer to our MSDS or contact our customer service center.

Version Information:

Date of first issue: Jan 24, 2019

Date of 1st revise: Nov 15, 2020 Reason for revision: Change of version

Date of 2nd revise: Nov 27, 2023 Reason for revision: Change of version

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The information provided here is for reference only. The specification will be provided in the quality certificate or in the contract. It is the user's responsibility to test the material and its suitability for a process. We have no control over what another party does with the material and we cannot take any responsibility for another party's action. Nor will we be responsible for any indirect damages while using our products. The user is welcome to contact our customer and technical service center with questions on our products.