

Technical Data Sheet

Revision Date: 2017-06-09
Name: WANNATE[®] HB-100

NO. PCS_0012
Version: 4.0

Application

WANNATE[®] HB-100 (1,6-hexamethylene diisocyanate based biuret polyisocyanate) is an aliphatic biuret polyisocyanate based on hexamethylene diisocyanate (HDI), colorless to slightly yellowish clear liquid.

Equivalent Weight ~191

Density at 25 °C ~ 1.14 g/cm³

WANNATE[®] HB-100 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.

The main applications for coatings based on WANNATE[®] HB-100 are automotive refinishing, transportation, industrial finishing and marine.

Specification

Properties	Unit	Specification
NCO Content	%	21.7 ~ 22.3
Viscosity at 25 °C	mPa s	7000 ~ 11000
Chromatic Number	APHA	≤ 80
HDI Content	%	≤ 0.7

Package(s)

20 kg Metal drum

60 kg Metal drum

215 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[®] HB-100 is sensitive to moisture. Storage at higher temperatures will result in increasing of color and viscosity.

WANNATE[®] HB-100 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).

WANNATE[®] HB-100 is not recommended to be thinned to a lower solid content. Prolonged storage of a solution with a lower content may result in turbidity and sedimentation, even gelation.

Compatibility

WANNATE[®] HB-100 can be mixed with the following products: aliphatic polyisocyanates, polyester polyols, aromatic polyisocyanates and polyacrylates.

Shelf Life

WANNATE[®] HB-100 is sensitive to moisture and must be stored in tightly sealed container. It can be stored for at least 9 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: Oct 6, 2014

Date of 1st revise: Feb 19, 2017 Reason for revision: Change of contact information

Date of 2nd revise: April 20, 2017 Reason for revision: Change of shelf life

Date of 3rd revise: June 9, 2017 Reason for revision: Change of company LOGO

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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.