

## Technical Data Sheet

Revision Date: 2020-11-15

NO. PCS\_0010

Name: WANNATE™ HT-80BS

Version: 5.0

### Application

WANNATE™ HT-80BS (solution of 1, 6-hexamethylene diisocyanate based polyisocyanate) is an aliphatic polyisocyanate based on hexamethylene diisocyanate (HDI) and dissolved in of 20% n-butyl acetate and solvent naphtha 100 (1:1), colorless to slightly yellowish clear liquid.

Equivalent Weight ~ 241

Density at 25 °C ~1.10 g/cm<sup>3</sup>

WANNATE™ HT-80BS 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-80BS are automotive refinishing, transportation, industrial finishing and plastics.

### Specification

Properties	Unit	Specification
NCO Content	%	17.0 ~ 18.0
Solids	%	79.5 ~ 81.5
Viscosity ( 20 °C)	s	38.0 ~ 42.0
Chromatic Number	APHA	≤ 20

HDI Content

%

 $\leq 0.2$ 

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**Package(s)**

200 kg      Metal drum

Other packaging available according to customer needs

**Storage / Solubility**

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

WANNATE™ HT-80BS is sensitive to moisture. Storage at higher temperatures will result in increase of color and viscosity.

WANNATE™ HT-80BS 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-80BS is not recommended to be thinned below 40% solid content. Prolonged storage of a solution with a lower content may result in turbidity and sedimentation, even gelation.

**Compatibility**

WANNATE™ HT-80BS can be mixed with the following products: aliphatic polyisocyanates, polyester polyols, aromatic polyisocyanates and polyacrylates.

**Shelf Life**

WANNATE™ HT-80BS is sensitive to moisture and must be stored in tightly sealed container. It can be stored for at least 6 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 1<sup>st</sup> revise: Feb 19, 2017 Reason for revision: Change of contact information

Date of 2<sup>nd</sup> revise: June 9, 2017 Reason for revision: Change of company LOGO

Date of 3<sup>rd</sup> revise: May 17, 2019 Reason for revision: Change of viscosity specification

Date of 4<sup>th</sup> revise: Nov 15, 2020 Reason for revision: Change of version

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