



Technical Data Sheet

Revision Date: 2023-11-27

NO. PCS_0009

Name: WANNATE™ HT-90BS

Version: 7.0

Application

WANNATE™ HT-90BS (solution of 1, 6-hexamethylene diisocyanate based polyisocyanate) is an aliphatic polyisocyanate based on hexamethylene diisocyanate (HDI) and dissolved in 10% of n-butyl acetate and solvent naphtha 100 (1:1) mixed solvent, colorless to slightly yellowish clear liquid.

Equivalent Weight ~ 214

Density at 25 °C ~ 1.13 g/cm³

WANNATE™ HT-90BS 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-90BS are automotive refinishing, transportation, industrial finishing and plastics.

Specification

Properties	Unit	Specification
NCO Content	%	19.50 ~ 20.10
Solids	%	89.0 ~ 91.0
Viscosity at 25	mPa ·s	350 ~ 650
Chromatic Number	APHA	≤ 40

HDI Monomer	%	≤ 0.20
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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.

WANNATETM HT-90BS is sensitive to moisture. Storage at higher temperatures may result in increasing of color and viscosity.

WANNATETM HT-90BS 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).

WANNATETM HT-90BS 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

WANNATETM HT-90BS can be mixed with the following products: aliphatic polyisocyanates, polyester polyols, aromatic polyisocyanates and polyacrylates.

Shelf Life

WANNATE™ HT-90BS 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.