

## WANNATE<sup>®</sup> HT-90BS

### Application

WANNATE<sup>®</sup> HT-90BS is an aliphatic polyisocyanate based on hexamethylene diisocyanate(HDI) and dissolved in 10% n-butyl acetate and solvent naphtha 100 (1:1),colorless to slightly yellowish clear liquid.

Equivalent weight approx. 214

Density at 25°C approx. 1.13g/ml

Flash point approx. 50°C

WANNATE<sup>®</sup> 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<sup>®</sup> HT-90BS are automotive OEM, automotive refinishing, transportation, industrial finishing and plastics.

### Specification

Properties	Specification
NCO Content	19.6 ± 0.3 %
Solids	90 ± 1 %
Viscosity at 25°C	500 ± 150 mPa·s
Color value (Hazen)	≤ 40
Monomeric HDI	≤ 0.2 %

### Package(s)

20 Kg Metal drum

220 Kg Metal drum

### Storage/ Solubility

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

WANNATE<sup>®</sup> HT-90BS is sensitive to moisture. Storage at higher temperatures will result in increase of color and viscosity.

WANNATE<sup>®</sup> 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). Aliphatic hydrocarbons are unsuitable as solvents.

WANNATE<sup>®</sup> HT-90BS is not recommended to thin to a lower solid content. Prolonged storage of a solution with a lower content may result in turbidity and sedimentation, even condensation.

### **Compatibility**

WANNATE<sup>®</sup> HT-90BS can be mixed with the following products: aliphatic polyisocyanates, polyester polyols, aromatic polyisocyanates and polyacrylates.

### **Shelf Life**

It can be stored at least for 9 months at room temperature if stored properly.

### **Safety Hazards identification**

May cause sensitization by skin contact. Contains isocyanates. See information supplied by the manufacturer.

The product is used mainly as a hardener in coating materials or adhesives. The handling of coating materials or adhesives containing reactive polyisocyanates and residual monomeric HDI requires appropriate protective measures referred to in the safety data sheet. These products may therefore be used only in industrial or trade applications. They are not suitable for use in homemaker (DIY) applications.

The safety data sheet should be observed. This contains information on labeling, transport and storage as well as on handling, product safety and ecology.

---

### **Disclaimer**

This information and our technical advice are in good faith but without warranty, and this also applied where proprietary rights of third parties are involved. We advise to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and therefore, entirely your own responsibility.

For more information, please refer to our MSDS or contact our customer service center.

WANHUA CHEMICAL GROUP CO., LTD

Yantai, Shandong, China

<http://www.whchem.com>

Tel: +86 (535)- 8203244

Fax: +86 (535)- 3388222-3244

E-mail: [ADI@whchem.com](mailto:ADI@whchem.com)

---