

## Technical Data Sheet

Revision date: 2017-06-09

TDS No.: PCS\_0015

Product label: WANNAT<sup>®</sup> HB-75MX

Version: V 4.0

### Application

WANNATE<sup>®</sup> HB-75MX (Hexamethylene diisocyanate-based urea polyisocyanate solution) is an aliphatic polyisocyanate. It consists of 75% HDI diurea, 12.5% propylene glycol methyl ether acetate and 12.5% dimethyl acetate and 12.5% xylene. It is a colourless or light yellow transparent liquid at room temperature with a weak irritating odour.

Equivalent Weight ~ 255

Density at 25 °C ~ 1.07 g / cm<sup>3</sup>

WANNATE<sup>®</sup> HB-75MX is primarily used as a curing agent component in lightfast two-component polyurethane coatings. The coating has excellent chemical and weathering resistance, outstanding light retention and excellent mechanical properties.

Coating systems formulated with WANNATE<sup>®</sup> HB-75MX are suitable for self-drying or baking. The main applications for coatings based on WANNATE<sup>®</sup> HB-75MX are used in automotive original paint(OEM), automotive repair, transportation tools, industrial and plastic coating, metal corrosion, construction machinery, bridge and other heavy anti-corrosion fields.

### Specification

| Properties           | Unit  | Specification |
|----------------------|-------|---------------|
| NCO content          | %     | 16.2 ~ 16.8   |
| Non-volatile content | %     | 74.0 ~ 76.0   |
| Viscosity at 25 °C   | mPa·s | 150 ~ 300     |
| Chromatic Number     | APHA  | 40            |
| HDI content          | %     | 0.5           |

**Package(s)**

215 kg      Metal drum

**Storage / Solubility**

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

WANNATE<sup>®</sup> HB-75MX is sensitive to moisture. Storage at higher temperatures may result in increasing of color and viscosity.

WANNATE<sup>®</sup> HB-75MX 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> HB-75MX is not recommended to be thinned to a lower solid content. Prolonged storage of a solution with a lower content may result in turbidity or sedimentation, even gelation.

**Compatibility**

WANNATE<sup>®</sup> HB-75MX can be mixed with the following products: aliphatic polyisocyanates, polyester polyols, aromatic polyisocyanates and polyacrylates.

**Shelf Life**

WANNATE<sup>®</sup> HB-75MX is sensitive to moisture and must be stored in tightly sealed container. It can be stored for at least 12 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.**