

Technical Data Sheet

Revision Date: 2023-08-03

NO. PCS_0097

Name: WANNATE™ IT-170BS

Version: 2.0

Application

WANNATE™ IT-170BS, dissolved Aromatic 100 and n-butyl acetate (2:1), 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. Based on its high hardness, it is normally mixed with WANNATE™ HT series.

The main applications for two-component coatings based on WANNATE™ IT-170BS are automotive OEM and automotive refinishing. WANNATE™ IT-170BS works as assistant resin in alkyd spray coating system for its high drying speed. This tendency to yellow is more pronounced at drying temperature above 80°C. It is recommended that forced drying be carried out below 80°C. This kind of coating is widely used in automotive refinish and industrial coatings.

Specification

Properties	Unit	Specification
NCO Content	%	11.00 ~ 13.00
Solids	%	68.00 ~ 72.00
Viscosity (25 °C)	mPa·s	500 ~ 2500
Chromatic Number	APHA	≤ 100
IPDI content	%	<0.50

Package(s)

200 kg Metal drum

60 kg Metal drum

IBC

ISO TANK

Other packaging available according to customer needs

Storage / Solubility

Store in a cool, dry, well-ventilated area. Keep away from incompatible materials and foodstuff containers. Store in original containers. Keep containers securely sealed. No smoking, naked lights or ignition sources. Protect containers against physical damage and check regularly for leaks. Avoid reaction with water, alcohols and detergent solutions. Some isocyanates react with water to form amines and liberate carbon dioxide. This reaction may also generate large volumes of foam and heat. Foaming in confined spaces may produce pressure in confined spaces or containers. Isocyanates will attack and embrittle some plastics and rubbers.

WANNATE™ IT-170BS can be thinned in polar solvents such as esters, ketones and ether esters, e.g. butyl acetate, methyl ethyl ketone and methoxypropylacetate, as well as in aromatics. 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™ IT-170BS can be thinned to stable solutions with a minimum solids content of 20 % in xylene, toluene, naphtha 100 and aromatic hydrocarbon mixture thereof. If prolonged storage stability of the thinned solutions is required, aliphatic hydrocarbons should not be added. Since WANNATE™ IT-170BS has necessary compatibility with aliphatic, it can be added in coatings formulated with aliphatic solvents.

Compatibility

WANNATE™ IT-170BS can be mixed with the following products: aliphatic polyisocyanates such as WANNATE™ HT-100, HB-100, polyester polyols, aromatic

polyisocyanates, polyacrylates and alkyd resins. However, the compatibility of the combinations used should always be tested.

Shelf Life

WANNATE™ IT-170BS is sensitive to moisture and must be stored in tightly sealed container. It can be stored for 6 months at temperatures between 0 and 30 °C.

General information: The product is sensitive to moisture. Storage at higher temperatures will result in increase of color and viscosity. Storage at significant lower temperatures will result in solidification. This solidification is reversible by briefly heating the product without adversely affecting the quality of the product.

For more information about safety and environment, please refer to our MSDS or contact our customer service center.

Version Information:

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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.