

HDI Waterborne Covestro 304

ABOUT:

Hydrophilically modified, aliphatic polyisocyanate based on hexamethylene diisocyanate (HDI). As the hardener/binder component for high-quality waterborne polymer dispersions and as an additive to improve the property level of waterborne coating and adhesive systems.

Product Types

- HDI
- PIC
- Hydrophilic polyisocyanate
- Aliphatic polyisocyanate
- Crosslinkers
- Polyisocyanate
- Hardeners
- Polyisocyanurate
- Isocyanate
- Reactive system

Material:

Coatings, paints & inks: High functional, Weather resistant, Easy mixing,

Ultra-low monomer, Waterborne

Adhesives: Moisture resistant, Ultra-low monomer, Waterborne, Heat activated

General Characterization:

Hydrophilically modified, aliphatic polyisocyanate based on hexamethylene diisocyanate (HDI).

As the hardener/binder component for high-quality waterborne polymer dispersions and as an additive to improve the property level of waterborne coating and adhesive systems.

With respect to its composition, the product corresponds to the following sections of the U.S. FDA's guidelines Title 21 CFR: Section 175.105 "Adhesives".

Storage Conditions:

- Storage in original sealed Covestro container.
- Recommended storage temperature: 0 - 30 °C.
- Protect from moisture, heat and foreign material.

General information: Hydrophilic isocyanates are very moisture-sensitive and react with water to form carbon dioxide and insoluble ureas. The containers must always be kept tightly closed. The access of water in all forms (moist air, solvents, moist containers) must be prevented, because the generation of carbon dioxide can lead to dangerous increases in pressure. Storage at higher temperatures will result in increase of color and viscosity. Due to the raw materials, the product may show visible turbidity caused by the cold. This turbidity occurs at approx. + 5 °C and is reversible when heated to room temperature. The product properties are not affected.

Sampling

No data available

Technical Properties & Datasheets

Characteristics:

Property Name	Test Method	Unit	Value
Flash point	DIN EN 22719	°C	226
Equivalent weight			approx. 230
Density	DIN 51757	g/ml	approx. 1.16

Specifications:

Property Name	Test Method	Unit	Value
NCO content	M105-ISO 11909	%	18.2 ± 0.5
Color value (Hazen)	M017-EN 1557		≤ 60
Viscosity at 23 °C	M014-ISO 3219/A.3	mPa*s	4,000 ± 1,500
Monomeric HDI	M106-ISO 10283		< 0.10

Packaging:

200KG/drum Please fasten the packaging cover as soon as possible after original packaging to prevent the mixing of other substances such as moisture and other substances that may affect the performance of the product. Do not inhale dust, avoid skin and mucous membrane contact. Smoking, eating and drinking are prohibited in the workplace. After work, shower and change clothes. Store contaminated clothes separately and reuse them after washing. Maintain good hygiene practices.

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