



Technical Data Sheet

Product Name: Latent Hardner for Polyurethane

Typical Properties:

Model	Appearance	Colour (Fe-Co)	Density g/cm ³ (25°C)	Viscosity mPa.s (25°C)	Amine Value (mmol/g)	Functionality	Odor
YRLH-1106	Amber clear liquid	≤15	1.023±0.02	70 ± 30	7.7±0.2	2	With special odor

Solubility: Easily soluble in various of general polyurethane raw material.

Features & Advantage:

YRLH-1106 is an imine based latent curing agent, commonly used as a latent curing agent for single component moisture cured polyurethane. When exposed to moisture, it can quickly release amine chain extenders and react with isocyanate groups to form polymer materials, with the following characteristics:

- **Fundamentally solve the common defects such as bulges and bubbles in moisture cured polyurethane:** YRLH-1106 basically avoids CO₂ bubbles caused by the reaction between moisture and -NCO during the solidification process.
- **Excellent storage stability.** Under anhydrous sealing conditions, the storage stability with isocyanate components hardly increases viscosity.
- **Significantly improve the curing speed of moisture cured polyurethane.** Generally, compared to traditional wet curing, the surface and internal drying is faster, and when combined with WCAT series catalysts and auxiliary catalysts, faster surface and internal solidify performance can be achieved.
- **Improve mechanical properties.** YRLH-1106 can be used to produce dense and bubble free polyurethane, avoiding the decrease in mechanical properties caused by bubbles.
- **Less addition, lower cost.** Compared to general latent curing agents, the dosage of YRLH-1106 is lower.

Applications:

- ◆ Used as a latent curing agent for single component moisture cured polyurethane, widely used in various coatings (waterproof coatings, etc.), single component polyurea, adhesive glue, sealant, etc;
- ◆ Used for two-component polyurethane as a dehydrating agent in construction processes such as pouring, spraying, and scraping, which can avoid problems such as bubbles, bulges, pinholes, peeling, and matte caused by moisture.

User's Guide:

- Usage: It is recommended to add and stir evenly in the later stage of production (i.e. after the pre polymerization reaction is completed).
- Suggested addition amount: The general addition amount is 0.2-1%, and the addition amount can be calculated based on NCO%. Generally, the more added within the theoretical amount, the faster the curing.
- It is recommended to use it together with the excellent moisture curing catalyst WCAT series and auxiliary catalyst WCAT-WQ01, which can significantly improve the surface and internal solidification of the moisture curing polyurethane.
- It is necessary to avoid placing it with can mouth open, and to isolate moisture during storage; It is recommended to fill the can with dry nitrogen gas for sealing protection after each opening.

Handling & Storage: Product should be stored in a cool, dry environment away from sunlight, excessive heat and rain.

Package: 25kg/200kg in HDPE drum

Shelf Life: The unopened shelf life is 12 months from the date of manufacture. After expiration, it can still be used normally if passing the test. Please pay attention to sealed storage.