

## H-1003 Waterborne Blocked Isocyanate

### Product Description

H-1003 is a blocked, non-ionic, waterborne isocyanate curing agent. Its main monomer is aliphatic, providing yellowing resistance, with free monomer content  $\leq 0.1\%$ . It has good dispersibility in water and other polar solvents.

### Typical Physical Data

Item	Specification
Appearance	Colorless to light yellow transparent liquid
Active content, %	60 $\pm$ 2
pH value	7
Viscosity (mPa.s) 25 $^{\circ}$ C	300 $\pm$ 50
NCO content	9.0 $\pm$ 0.2
Unblocking temperature, $^{\circ}$ C	$\geq$ 110

### Application Scope

Used in various waterborne resin systems to improve various physical and chemical properties, and can be formulated into one-component systems.

### Usage Instructions

1. It can be used in acidic, alkaline, and neutral waterborne systems. The typical dosage is 3-5% of the total system weight, depending on the hydroxyl value of the main resin.
2. The processing temperature needs to be above 110 $^{\circ}$ C. The higher the temperature, the shorter the processing time, and the faster the curing speed.

### Precautions

Can be stored for more than 12 months at room temperature. If stored at too high a temperature for too long, discoloration, gelation, damage, and deterioration may occur.

### Packaging

Available in 5KG and 25KG non-recyclable plastic barrels. Ensure the container lid is tightly closed after use if not completely emptied.

### Storage and Shelf Life

Store at 5-35 $^{\circ}$ C, avoid freezing and direct sunlight. Keep sealed and stir well before use.

*This product information is based on our best knowledge from experimental results and is provided for reference only. We recommend customers conduct their own trials based on their specific conditions to ensure the best performance.*