



# Product Data Sheet Uracron™ CY463 E-50

## Hydroxy acrylic resin for 2-component NCO-curing systems

### Applications

- clear and pigmented primers and topcoats for Industrial wood coatings
- clear and pigmented coatings for Industrial interior and exterior plastic coatings

### Principal properties

- compatibility
- very high reactivity
- pot life
- stack ability
- yellowing resistance

### Dilutability

- Xylene complete
- n-Butyl acetate complete
- 1-Methoxy 2-propyl acetate complete
- Methyl isobutyl ketone complete
- Methyl ethyl ketone complete
- n-Butanol limited

### Compatibility

- Hydroxy acrylic resins complete
- Cellulose nitrate ½ sec complete
- Cellulose acetate butyrate complete
- Aliphatic polyisocyanate complete
- Aromatic polyisocyanate complete
- Melamine-formaldehyde resins incompatible

### Recommendations on formulation and use

- Uracron CY463 E-50 is solved in butyl acetate and therefore suitable for aromatic solvent free systems
- Uracron CY463 E-50 has a broad compatibility with co-binders and is therefore suitable for many purposes
- Compared with other hydroxy acrylic resins for wood coatings it has one the highest reactivities
- Uracron CY463 E-50 has a good balance between hardness and flexibility
- For the formulation of an absolute non-yellowing system the use of cellulose acetate butyrate and crosslinking via aliphatic isocyanate is recommended

### Delivery form:

50% solids in butyl acetate

### Product specifications

Property	Range	Unit	TM
Viscosity, 23°C	3.3 - 4.8	Pa.s	2013
Color, APHA	0 - 100	-	2017
Solids content	49 - 51	%	2022
Appearance	clear	-	2265
Acid value, on solid	15 - 25	mg KOH/g	2401

### Other product data

Property	Value	Unit	TM
Density, 23°C	ca. 1004	kg/m <sup>3</sup>	2160
Flash point	ca. 24.5	°C	2800
Hydroxyl content, on solid	ca. 2	%	2432

### Storage guidelines

The resin should be stored indoors in the original, unopened and undamaged containers in a dry place at storage temperatures between 5°C and 30°C. Exposure to direct sunlight should be avoided.

### Shelf life

Under the stipulated storage conditions, the anticipated shelf-life is 730 days from last quality control date, as stated in the Certificate of Analysis.

### Material safety

A Material Safety Data Sheet of the products is available on request.

### Test methods

Test methods (TM) referred to in the tables are available on request.

### Starting formulations

Starting formulations are available on request.

