



# Product Data Sheet Uracron™ CY458 XE-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
- reactivity
- stackability
- chemical resistance
- flexibility
- yellowing resistance

### Dilutability

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

### Compatibility

Hydroxy acrylic resins	complete
Cellulose nitrate ½ sec	complete
Cellulose acetate butyrate	complete
Aliphatic polyisocyanates	complete
Aromatic polyisocyanates	complete

### Recommendations on formulation and use

Uracron CY458 XE 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 CY458 XE 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 isocyanates is recommended.

For pigmented formulations it is recommended to grind in Uracron CY468 XF or to use a suitable dispersing agent like Byk 160 <sup>1)</sup>.

### Delivery form:

50% in xylene/butyl acetate = 45/55

### Product specifications

Property	Range	Unit	TM
Viscosity, 23°C	5.5 - 8.5	Pa.s	2013
Color, APHA	0 - 100	-	2017
Solids content	49 - 51	%	2022
Appearance	clear	-	2265
Acid value, on solid	14 - 18	mg KOH/g	2401

### Other product data

Property	Value	Unit	TM
Density, 23°C	ca. 1009	kg/m <sup>3</sup>	2160
Flash point	ca. 25.5	°C	2800
Hydroxyl content, on solid	ca. 1.8	%	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 above mentioned storage conditions the shelf life of the resin will be 730 days ex works.

### 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 available on request.

<sup>1)</sup> Byk Chemie GmbH

