



# Product Data Sheet Uracron™ CY450 S1E

## Hydroxy acrylic resin for 2K systems

### Applications

- car repair enamels
- top coats/clear coats
- general industrial finishes
- machine/protective top coats

### Principal properties

- Sprayability
- Drying speed
- Weathering resistance

Uracron CY450 is suitable to formulate medium solid coatings, when combined with polyisocyanate Tolonate HDT LV<sup>2)</sup>.

### Dilutability

Xylene	limited
Solvesso 100 <sup>1)</sup>	limited
Solvesso 150 <sup>1)</sup>	limited
n-Butyl acetate	complete
1-Methoxy 2-propyl acetate	complete
Methyl ethyl ketone	complete

### Compatibility

Uracron CY474, CY430, CY468, CY499	complete
Uralac AN623	complete
Maprenal MF821, MF822 <sup>3)</sup>	complete
Cellulose nitrate, ½ sec.	complete
Cellulose acetate butyrate	incompatible
Aliphatic polyisocyanates	complete
Isophorone diisocyanate	complete

### 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.

<sup>1)</sup> Exxon Chemicals

<sup>2)</sup> Vencorex

<sup>3)</sup> Ineos

### Delivery form:

65% in Solvesso 100<sup>1)</sup> / Butyl acetate = 4/3

### Product specifications

Property	Range	Unit	TM
Viscosity, 23° C	5.5 - 8.0	Pa.s	2013
Color	0 - 100	APHA	2017
Solids content	64 - 66	%	2022
Appearance	clear	-	2265
Acid value, on solid	4 - 8	mg KOH/g	2401

### Other product data

Property	Value	Unit	TM
Density, 23° C	ca. 1025	kg/m <sup>3</sup>	2160
Flash point	ca. 35	°C	2800
Hydroxyl value, on solid	ca. 4.2	%	2432

### 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.

### Shelf life

Under the stipulated storage conditions, the anticipated shelf-life is 365 days from last quality control date, as stated in the Certificate of Analysis.

### Recommendations for formulation and use

In order to speed up the drying properties, the addition of catalysts such as dibutyltindilaurate and zinc decanate is suggested in the following quantities:

Dibutyltindilaurate: 0.002 - 0.01 % on total binder

Zinc decanate: 0.1 - 0.3% on total binder

In clear coat it is recommended to add 1% on total binder of a light stabiliser against degradation of film (cracking and yellowing).

The addition of a small quantity of silicone oil and a flow additive improves the flow and prevents fish eye formation.

### Starting formulations

Starting formulations are available on request.

