



Product Data Sheet Uracron™ CY474 E-70

Hydroxy acrylic resin

Applications

Car repair:

- two component top coats
- two component clear coats

General industry:

- machine lacquers
- protective top coats
- industrial finishes

Plastic coatings:

- top coats

Principal properties

- solids content
- drying speed at ambient temperature
- film hardness
- chemical resistance
- weathering resistance

Uracron CY474 E-70 shows faster drying than CY499 E in high solid two component systems

Dilutability

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

Compatibility

Aliphatic and aromatic polyisocyanates	complete
Cellulose nitrate, ½ sec.	complete
Uralac SY941	complete
Uracron CY450, CY455	complete
Uracron CY468, CR226, CY499, CY430	complete
Maprenal MF821, MF822 ²⁾	almost complete
Cellulose acetate butyrate	incompatible

¹⁾ Exxon Chemicals

²⁾ Ineos

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.

Delivery form:

70% in butyl acetate

Product specifications

Property	Range	Unit	TM
Viscosity, 23° C	3.5 - 5.5	Pa.s	2013
Color, APHA	0 - 70	-	2017
Solids content	69 - 71	%	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. 1054	kg/m ³	2160
Flash point	ca. 24	°C	2800
Hydroxyl content, on solid	ca. 4.2	%	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.

Recommendations for formulation and use

In order to speed up the drying properties at ambient temperature, it is suggested to use catalysts such as:
 - DBTL (Dibutyltindilaurate) 0.002-0.02% on total binder.
 - Zinc drier 0.1-0.3% on total binder.

When dispersing organic or inorganic pigments, it is recommended to use a pigment wetting agent.

In clear coats it is recommended to add, 1% on total binder of a UV absorber and a HALS (Hindered Amine Light Stabiliser).

The addition of small quantities of silicon oil improves flow and mar resistance.

Test methods

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

Material safety

A material safety data sheet of the products is available on request.

Starting formulations

Starting formulations available on request.

