



Product Data Sheet Urathix™ CY4630 E-50

Thixotropic hydroxy acrylic resin for two 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

- thixotropic
- compatibility
- very high reactivity
- pot life
- stackability
- 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
- Melamines :
 - Maprenal MF 863/68IB¹⁾ incompatible
 - Cymel 303 LF²⁾, Luwipal 072³⁾ compatible

- 1) Ineos
- 2) Allnex
- 3) BASF

Material safety

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

Delivery form:
50% in Butylacetate

Product Specifications

Property	Range	Unit	TM
Visco (shear stress, high)	600-1300	100 s ⁻¹	2312H
Visco (shear stress, low)	80-180	10 s ⁻¹	2312L
Acid value, on solid	15-25	mg KOH/g	2401
Solid content	48-52	%	2026Q

Other product properties

Property	Range	Unit	TM
Appearance	Hazy	-	2265
Density, 23°C	ca. 1004	kg/m ³	2160
Hydroxyl content (solid)	ca. 1,8	%	2432

Test methods

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

Recommendations on formulation and use

- Urathix CY4630 E-50 is suitable for aromatic solvent free systems
- It 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
- Urathix CY4630 E-50 has a good balance between hardness and flexibility
- For absolute non-yellowing systems it is recommended to use cellulose acetate butyrate and aliphatic isocyanate

Storage guidelines

The resin should be stored indoors in the original, unopened and undamaged containers in a dry place at storage tempes 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 365 days from last quality control date, as stated in the Certificate of Analysis.

