



# Product Data Sheet Urakyd™ AK429 QXB3-60

**Medium oil chain stopped alkyd resin based on conjugated and soya-bean fatty acids**

## Applications

- machinery coatings
- enamels for trucks/vehicles
- radiator paints
- joinery

## Principal properties

- drying speed
- outdoor durability
- gloss level

## Dilutability

Xylene	complete
n-Butyl acetate	complete
Methyl ethyl ketone	complete
n-Butanol	limited
White spirit	limited

## Compatibility

Medium-oil alkyds	complete
Cyclised rubber	complete
Chlorinated rubber	complete
Short-oil alkyds	complete
Melamine-formaldehyde resins	complete
Urea-formaldehyde resins	complete
Rosin maleic resins	limited
Rosin etherified phenolic resins	limited

## Recommendations on formulation and use

Urakyd AK429 can be used for air drying and forced drying applications. In case of forced drying a combination with a suitable amino resin will improve hardness. Dilutability of Urakyd AK429 with aliphatic hydrocarbons is limited but white spirit can be used to a certain extent for brush application.

## Delivery form:

60% in D40/xylene/isopropanol

## Product specifications

Property	Range	Unit	TM
Solids content	59 - 61	%	2038
Viscosity, Falling ball 23°C	34 - 45	dPa.s	2001
Acid value, on solid	5 - 10	mg KOH/g	2401
Color, Gardner	0 - 5	-	2017
Appearance	clear	-	2265

## Other product data

Property	Value	Unit	TM
Oil length	40	%	-
Type of fatty acid	conjugated and soya-bean fatty acids	-	-
Phthalic acid content	ca. 27	%	-
Hydroxyl content, on solid	ca. 2.7	%	2432
Density, 23°C	ca. 975	kg/m <sup>3</sup>	2160
Flash point	ca. 15	°C	2800

## Drier system

For proper drying characteristics it is recommended to use (weight% metal on solid resin):

Cobalt drier	0.01 - 0.03%
Calcium drier	0.05 - 0.1%
Zirconium drier	0.1 - 0.3%

## 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 365 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.

