Product Data Sheet
Urakyd™ AK429 X-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.

Starting formulations
Starting formulations available on request.

Delivery form:
60% in xylene

Product specifications

Property	Range	Unit	TM
Solids content	59 - 61	%	2025
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. 1015	kg/m³	2160
Flash point	ca. 26	°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.