



# Product Data Sheet Urakyd™ AK430 X-75

Medium-oil chain stopped alkyd resin based  
on linoleic rich fatty acids

## Applications

- car repair finishes
- machinery paints
- drum paints
- air drying/forced drying application

## Principal properties

- recoatability
- drying speed
- hardness

## Dilutability

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

## Compatibility

Long-oil alkyds	complete
Medium-oil alkyds	complete
Modified alkyds	limited
Rosin maleic resins	limited
Cellulose nitrate, 2 sec	limited

## Recommendations on formulation and use

In case of forced drying, the hardness can be improved by adding a reactive melamine resin. Chemical resistance can be improved by adding poly-isocyanate (Desmodur Z-4370, ca. 5%), usually to be added via the spraying thinner. In paint formulations the usual pigments and extenders may be used.

## Starting formulations

Starting formulations available on request.

## Test methods

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

## Delivery form:

75% in xylene

## Product specifications

Property	Range	Unit	TM
Solids content	74 - 76	%	2025
Viscosity, Falling ball 23 °C	250 - 500 <sup>1)</sup>	dPa.s	2001
Acid value, on solid	6 - 12	mg KOH/g	2401
Color, Gardner	0 - 7	-	2017
Appearance	clear	-	2265

<sup>1)</sup> to be more defined after several batches

## Other product data

Property	Value	Unit	TM
Oil length	48	%	-
Type of fatty acids	linoleic rich	-	-
Phthalic acid content	ca. 26	%	-
Hydroxyl content, on solid	ca. 1.2	%	-
Density, 23 °C	ca. 1010	kg/m <sup>3</sup>	2160
Flash point	ca. 28	°C	2800

## Drier system

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

Cobalt drier	0.04 - 0.05%
Calcium drier	0.1 - 0.2%
Zirco drier	0.3 - 0.5%

## 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.

