



Product Data Sheet Urakyd™ AK422 X-60

Short-oil chainstopped alkyd resin based on soya-bean fatty acids

Applications

- machinery primers/top coats
- car-repair primers/surfaces
- air drying/forced drying industrial applications

Principal properties

- pigment wetting
- drying speed
- recoatability

Dilutability

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

Compatibility

Short-oil alkyds	complete
Cyclised rubber	complete
Chlorinated rubber	complete
Urea-formaldehyde resins	complete
Rosin maleic resins	limited

Recommendations on formulation and use

In paint formulations the usual pigments and/or extenders may be used.

For stoving application the addition of a suitable amino resin is advised. Addition of cellulose nitrate speeds up the drying and makes Urakyd AK422 very suitable for fast drying paints.

Starting formulations

Starting formulations available on request.

Test methods

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

Delivery form:

60% in xylene

Product specifications

Property	Range	Unit	TM
Solids content	59 - 61	%	2025
Viscosity, Falling ball 23 °C	65 - 78	dPa.s	2001
Acid value, on solid	5 - 10	mg KOH/g	2401
Color	0 - 3	Gardner	2017
Appearance	clear	-	2265
Pour out test	max. 3	-	2197

Other product data

Property	Value	Unit	TM
Oil length	31	%	-
Type of oil	soya-bean	-	-
Phthalic acid content	ca. 40	%	-
Hydroxyl content, on solid	ca. 3.2	%	2432
Density, 23 °C	ca. 1035	kg/m ³	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.

