



# Product Data Sheet Urakyd™ AK417 X-60

**Short-oil chainstopped alkyd resin based on linoleic rich oils**

## Applications

- machinery paints
- general industrial air drying systems
- forced drying/stoving systems

## Principal properties

- color retention
- adhesion
- drying speed

## Dilutability

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

## Compatibility

Short-oil alkyds	complete
Medium-oil alkyds	limited
Amino resins	limited
Cellulose nitrate	limited
Cellulose aceto butyrate	limited
Long-oil alkyds	incompatible

## Recommendations on formulation and use

Urakyd AK417 can be used either in air drying, forced drying or stoving systems.

Recoating between 16 hours and 48 hours drying of the fore-going layer is, as a rule, not recommendable because of the risk of lifting. In forced drying and stoving systems about 10% of the solid alkyd resin has to be replaced by a suitable amino resin to obtain a better hardness. As diluents aromatic solvents are recommended. In paint formulations the usual pigments and/or extenders may be used.

## Delivery form

60% in xylene

## Product specifications

Property	Range	Unit	TM
Solids content	59 - 61	%	2025
Viscosity, 23°C	3.2 - 4.7	Pa.s	2013
Acid value, on solid	7 - 15	mg KOH/g	2401
Color, Gardner	0 - 5	-	2017
Appearance	clear	-	2265

## Other product data

Property	Value	Unit	TM
Oil length	26	%	-
Type of oils	linoleic rich	-	-
Phthalic acid content	ca. 43	%	-
Hydroxyl content, on solid	ca. 2	%	-
Density, 23°C	ca. 1040	kg/m <sup>3</sup>	2160
Flash point	ca. 25	°C	2800

## Drier system

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

Cobalt drier	0.01 - 0.03	%
Calcium drier	0.05 - 0.1	%
Zirco 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.

