



Product Data Sheet Urakyd™ AK418 X-60

Short-oil chainstopped alkyd resin based on linoleic rich oils

Applications

- machinery paints
- general industrial air drying systems
- forced drying/stoving systems
- industrial wood coating 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 AK418 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.

Starting formulations

Starting formulations available on request.

Delivery form

60% in xylene

Product specifications

Property	Range	Unit	TM
Solids content	59 - 61	%	2038
Viscosity, 23°C	2.4 - 3.2	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	28	%	-
Type of oils	linoleic rich	-	-
Phthalic acid content	ca. 41	%	-
Hydroxyl content, on solid	ca. 2	%	-
Density, 23°C	ca. 1040	kg/m ³	2160
Flash point	ca. 28	°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.

