



Product Data Sheet

Urakyd™ AK421 PK-55

**Medium-oil chain stopped alkyd resin
based on tall oil fatty acids**

Applications

- road marking paints

Principal properties

- drying speed
- hardness
- abrasion resistance

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
Cyclised rubber	complete
Chlorinated rubber	insoluble
Cellulose nitrate, 2 sec.	insoluble

Recommendations on formulation and use

Urakyd AK421 has been developed for road-marking paints.

Suitable diluents are esters and ketones but also a combination of Special Boiling Point petrol and lower alcohols such as propanols and butanols can be used for thinning down.

Starting formulations

Starting formulations available on request.

Delivery form:

55% in SBP 100-140EC/ MEK = 90/10

Product specifications

Property	Range	Unit	TM
Solids content	54 - 56	%	2025
Viscosity, Falling ball 23 °C	40 - 60	dPa.s	2001
Acid value, on solid	6 - 10	mg KOH/g	2401
Colour, Gardner	0 - 5	-	2017
Appearance	clear	-	2265

Other product data

Property	Value	Unit	TM
Oil length	45	%	-
Type of fatty acid	tall oil	-	-
Phthalic acid content	appr. 30	%	-
Hydroxyl content	1.2	%	-
Density, 23 °C	appr. 917	kg/m ³	2160
Flash point	appr. - 3	°C	2800

Drier system

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

Cobalt drier	0.03 - 0.04	%
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 180 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.

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