Product Data Sheet
Urakyd™ AK410 Q-52

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

Applications
- sprayable enamels for semi-industrial purposes on steel and wood
- decorative enamels for interior and exterior use

Principal properties
- drying speed
- yellowing resistance
- outdoor durability
- gloss level

Dilutability

White spirit	complete
Xylene	complete
n-Butyl acetate	complete
Methyl ethyl ketone	complete
SBP 100-140°C	almost complete
n-Butanol	insoluble

Compatibility

Long-oil alkyds	complete
Medium-oil alkyds	complete
Modified alkyds	limited
Linseed stand oil 30 dPa.s	limited
Rosin maleic resins	limited
Cellulose nitrate, 2 sec	complete

Recommendations on formulation and use
Urakyd AK410 is suitable for application in air drying industrial coatings e.g. car repair, agricultural equipment, machinery enamels and coatings for the timber industry.
The addition of petrol-compatible poly-isocyanates via the spraying thinner improves hardness, through-drying and petrol resistance.

Starting formulations
Starting formulations are available on request.

Delivery form:
52% in de-aromatised hydrocarbon D40

Product specifications

Property	Range	Unit	TM
Solids content	51 - 53	%	2025
Viscosity, 23°C, Z3/100/23	31 - 39	dPa.s	2013
Acid value, on solid	5 - 10	mg KOH/g	2401
Color, Gardner	0 - 6	-	2017
Appearance	clear	-	2265

Other product data

Property	Value	Unit	TM
Oil length	53	%	-
Type of fatty acids	tall oil	-	-
Phthalic acid content	ca. 25	%	-
Hydroxyl content, on solid	ca. 2	%	
Density, 23°C	ca. 920	kg/m³	2160
Flash point	ca. 40	°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.

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