



# Product Data Sheet Urakyd™ AK436 WB3-55

**Medium-oil, chain stopped alkyd resin  
based on processed soya-bean fatty acids**

### Applications

- car refinishes
- machinery coatings
- joinery industry

### Principal properties

- pigment wetting
- gloss retention
- yellowing resistance
- through-drying
- outdoor durability

### Dilutability

Xylene	complete
n-Butyl acetate	complete
Methyl ethyl ketone	complete
White spirit	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 AK436 WB3-55 is suitable for application in air drying industrial coatings e.g. car repair, agricultural equipment, machinery enamels and coatings for the timber industry.

The specially processed soya-bean fatty acids ensure colour stability and yellowing resistance.

The addition of petrol-compatible poly-isocyanates via the spraying thinner improves hardness, through-drying and petrol resistance.

### Delivery form:

55% in white spirit / IPA

### Product specifications

Property	Range	Unit	TM
Solids content	54 - 56	%	2025
Viscosity, 23°C	2 - 4	Pa.s	2013
Acid value, on solid	4- 10	mg KOH/g	2401
Colour, Gardner	0 - 7	-	2017
Appearance	clear	-	2265

### Other product data

Property	Value	Unit	TM
Oil length	49	%	-
Type of oil	processed soya-bean	-	-
Hydroxyl content, on solid	ca. 1.9	%	2430
Density, 23°C	ca. 942	kg/m <sup>3</sup>	2160
Flash point	ca. 45	°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.

