



Product Data Sheet Urakyd™ AL210 Q-55

Polyurethane modified long-oil alkyd resin based on soya-bean oil

Applications

- decorative enamels
- boat varnish / parquet flooring
- garden furniture

Principal properties

- drying speed
- through drying
- yellowing resistance
- outdoor durability

Dilutability

Aliphatic hydrocarbons	complete
Aromatic hydrocarbons	complete
n-Butanol	insoluble

Compatibility

Long oil alkyds	complete
Medium oil alkyds	complete
Linseed stand oil 30 dPa.s	incompatible
Rosin maleic resins	limited

Recommendations on formulation and use

Urakyd AL210 is suitable for light shaded decorative enamels. The aliphatic nature of the isocyanate modification and the total composition of the alkyd resin is resulting in good outdoor durability, yellowing resistance, high gloss, abrasion resistance and good drying properties. Urakyd AL210 may be used as such. In combination with longer oil alkyds the through drying / through hardening of the latter ones will be improved.

In paint formulations the usual pigments and extenders may be used.

Starting formulations

Starting formulations available on request.

Test methods

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

Delivery form:

55% in de-aromatised hydrocarbon D40

Product specifications

Property	Range	Unit	TM
Viscosity, Falling ball 23°C	30 - 45	dPa.s	2001
Color, Gardner	max. 6	-	2017
Solids content	54 - 56	%	2025
Appearance	clear	-	2265
Acid value, on solid	0 - 6	mg KOH/g	2401

Other product data

Property	Value	Unit	TM
Oil length	ca. 57	%	-
Type of oil	soya-bean	-	-
Type of modification	IPDI	-	-
Free Isocyanate	0	%	-
Density, 23°C	ca. 913	kg/m ³	2160
Flash point	ca. 38	°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.

