



# Product Data Sheet Urakyd™ OR310 Q1-55

## Urethane modified linoleic rich oils

### Applications

- interior and exterior varnishes and paints
- yacht paints
- floor lacquers

### Principal properties

- fast drying
- gloss level
- chemical resistance
- outdoor durability

### Dilutability

Aromatic hydrocarbons	complete
n-Butyl acetate	complete
Methyl ethyl ketone	complete
Aliphatic hydrocarbons	limited
n-Butanol	insoluble

### Compatibility

Long-oil alkyd resins	complete
Medium-oil alkyd resins	complete
Rosin based esters	limited
Linseed stand oil 30 dPa.s	limited
Cellulose acetate butyrate	incompatible
Cellulose nitrate	incompatible

### Recommendations for formulation and use

Urakyd OR310 is suitable as a sole binder in clear varnishes for furniture or parquet flooring. By means of suitable flattening agents, silicium dioxide in general, Urakyd OR310 can be easily flattened. Urakyd OR310 has a good stability with reactive pigments, hence suitable for metal effect paints and primers for steel. In combination with long-oil alkyd resins Urakyd OR310 is improving the drying properties.

### Test methods

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

### Delivery form:

55% in de-aromatized hydrocarbon solvent D60

### Product specifications

Property	Range	Unit	TM
Viscosity, Falling ball 23°C	27 - 42	dPa.s	2324
Color, Gardner	max. 6	-	2017
Solids content	54 - 56	%	2038
Appearance	clear - sl.hazy	-	2265
Acid value, on solid	0 - 3	mg KOH/g	2401

### Other product data

Property	Value	Unit	TM
Oil length	ca. 69	%	-
Type of oil	Linoleic rich	-	-
Type of modification	TDI	-	-
Free isocyanate content	0	%	-
Density, 23°C	ca. 920	kg/m <sup>3</sup>	2160
Flash point	ca. 63	°C	2800

### Drier system

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

Cobalt drier	0.002 - 0.01%
Calcium drier	0.05 - 0.1%
Zirco drier	0.2 - 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 product is available on request.

