



# Product Data Sheet Urakyd™ AD525 X-60

**Medium-oil alkyd resin based on low rosin tall oil**

## Applications

General industrial:

- stoving enamels (general purpose)

Industrial wood coating:

- acid curing and NC varnishes

## Principal properties

- broad compatibility with amino resins
- quick solvent release
- sandability
- economical

The quick solvent release of Urakyd AD525 X-60 may be useful in acid curing wood sealers.

## Dilutability

Xylene	complete
n-Butyl acetate	complete
Methyl ethyl ketone	complete
White spirit	limited
n-Butanol	limited

## Compatibility

Curazine 42-360 iBX60 <sup>2)</sup>	complete
Maprenal MF 863/68IB <sup>3)</sup>	complete
Cellulose nitrate, 0.5 sec.	complete
Aliphatic and aromatic polyisocyanates	complete
Cellulose acetate butyrate	incompatible

## Test methods

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

## Starting formulations

Starting formulations available on request.

## Material safety

A material safety data sheet of the products is available on request.

## Delivery form:

60% in xylene

## Product specifications

Property	Range	Unit	TM
Viscosity, Falling ball 23°C	54 - 66	dPa.s	2001
Color, Gardner	0 - 6	-	2017
Solids content	59 - 61	%	2025
Appearance	clear	-	2265
Acid value, on solid	6 - 12	mg KOH/g	2401

## Other product data

Property	Value	Unit	TM
Oil length (tall oil with < 2% rosin)	ca. 42	%	-
Type of polyol	glycerol		
Phthalic acid content	ca. 40	%	-
Flash point	ca. 26	°C	2800
Density, 23°C	ca. 1025	kg/m <sup>3</sup>	2160

## 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.

## Recommendations on formulation and use

Optimum film properties can be obtained when Urakyd AD525 is combined with amino resin in the ratio 70/30 - 60/40 solid/solid. In stoving systems the curing temperature with a medium reactive urea resin is 130°C for 20 minutes. For maximum mechanical properties it is recommended to modify the alkyd/amino combination with 5-10% (calculated on solid binder) epoxy resin e.g. Epikote 1001<sup>1)</sup>. Urakyd AD525 is an economical stoving alkyd and is not recommended for applications where high exterior durability and yellowing resistance is required.

- 1) Hexion
- 2) Bitrez
- 3) Ineos

