

Technical Data Sheet

WorléeKyd C 640

short-oil alkyd for the manufacture of high-quality nitrocellulose finishes

Art.-No. 111003-00237

update: 26.03.2025

Sustainability:

The bio-based raw material content is approx. 38% on solid binder.

Technical Data:

	Value	Method*
Non-volatile content	59 - 61%	1h/125 °C, DIN EN ISO 3251
Oil type	saturated fatty acid	
Oil content	approx. 38%	
Acid value, on solids	≤ 15 mg KOH/g	DIN EN ISO 2114
Colour, Gardner, 50% in xylene	≤ 10	DIN ISO 4630
Viscosity, Rheometer	2,000 - 2,800 mPa·s	20 °C, C 35/1°, 250 s ⁻¹
Flow time, 50% in xylene	40 - 60 s	20 °C, DIN EN ISO 2431
Delivery form	approx. 60% in xylene	

*according to the respective DIN-Norm

Application and Properties:

WorléeKyd C 640 is particularly suitable for the manufacture of high quality colourless and pigmented nitrocellulose lacquers. The solvent release is very fast for a non-drying alkyd resin. Due to the type of fatty acid it is possible to manufacture versatile, mostly non-yellowing nitrocellulose lacquers which may be recoated by wet-on-wet technique at any time.

Quick sanding primers based on WorléeKyd C 640 and nitrocellulose in the ratio 2 : 1 (calculated on resin solids) have exceptionally short drying times and a good sandability.

Due to its very good resistance to yellowing, WorléeKyd C 640 is suitable for the production of lacquers for light coloured wood and for paper.

In combination with nitrocellulose, plasticizers, suitable urea formaldehyde resins and acid catalyst, WorléeKyd C 640 is also suitable for the manufacture of one and two component acid catalysed finishes.

The good pigment wetting properties and the absence of oxidative drying components makes it possible to use WorléeKyd C 640 as a binder for pigment pastes.

Compatibility:

WorléeKyd C 640 is compatible with the majority of short oil alkyd resins, maleic resins, ketone resins, and amino resins. Because of the amount of products on the market, a compatibility pre-check is recommended

Technical Data Sheet

WorléeKyd C 640

short-oil alkyd for the manufacture of high-quality nitrocellulose finishes

Art.-No. 111003-00237

update: 26.03.2025

Solubility:

WorléeKyd C 640 is soluble in aromatic hydrocarbons, esters, ketones and glycol ether esters. It is insoluble in lower alcohols, aliphatic hydrocarbons and glycol ethers. Nevertheless, the latter mentioned solvents can be used in combination with "real" solvents.

Shelf Life and recommended Conditions for Storage and Transport:

The storage stability of WorléeKyd C 640 in the originally closed container is six months at a storage temperature between +5 and +25 °C, counted from the day of the delivery ex works.

Store in a cool, dry place and keep containers tightly closed.