

## Technical Leaflet

# WorléeKyd C 628

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W´Kyd C 628 is a short oil, low viscous, non drying alkyd resin based on special fatty acids and used for yellowing resistant stoving enamels, isocyanate cured lacquers and paints and in combination with nitrocellulose for physical drying lacquers and enamels.

### Technical Data:

Oil content	approx. 28%
Content of phthalic anhydride	approx. 47%
Non volatile content, 1h/125 °C, DIN EN ISO 3251	70% ± 1
Colour, Gardner, 50% in xylene, DIN ISO 4630	max. 10
Acid value, on solids, DIN EN ISO 3682	max. 15
Flow time, 20 °C, 50% in xylene, DIN 53211-4	40 - 60 s
OH content	approx. 2.2%
<b>Delivery form</b>	70% in xylene

### Compatibility:

W´Kyd C 628 is compatible with short oil alkyds and amino resins. Due to the large number of different types of resins a compatibility test is recommended. It is also compatible with NC and partially compatible with CAB. With the Desmodur types N, L and HL from Bayer W´Kyd C 628 is also compatible, but incompatible with Desmodur IL.

### Solubility:

W´Kyd C 628 is soluble in aromatic hydrocarbons, esters, ketones and glycol ethers. It is insoluble in aliphatic hydrocarbons and lower alcohols.

### Application and Properties:

W´Kyd C 628 is an ideal alkyd resin for high quality stoving systems. In combination with reactive unplasticized urea resins at a ratio 2:1 up to 3:2 and in combination with melamine resins at the ratio 4:1 up to 3:1 the best all-round properties are achieved.



The relatively low viscosity of W´Kyd C 628 makes this resin suitable for the manufacture of medium solid stoving systems. Combinations of W´Kyd C 628 and amino resins have good viscosity stability and can be used also for dipping systems. The best stoving conditions are between 30 min. at 120 °C and 10 min. at 160 °C. The cured paint film has high gloss and excellent yellowing resistance up to 200 °C.

A further field of application for W´Kyd C 628 are unpigmented and pigmented isocyanate cured wood coatings. White isocyanate cured enamels have low yellowing tendency when crosslinked with Desmodur L (Bayer AG). Further advantages are high film build and excellent gloss.

Nitrocellulose combination lacquers based on W´Kyd C 628 have also high film build, good UV resistance and excellent gloss.

W´Kyd C 628 in combination with nitrocellulose can also be used for enamels which can be polished for improving the gloss.