

Technical Leaflet

WorléeKyd SD 7003

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W'Kyd SD 7003 is a low viscous, long oil air drying alkyd resin for the production of **low VOC decorative and house paints**.

Technical Data:

Non volatile content, 1h/125 °C, DIN EN ISO 3251	85% ± 1
Oil type	special vegetable fatty acids
Oil content	approx. 70%
Acid value, on solids, DIN EN ISO 3682	< 15
Colour, Gardner, delivery form, DIN ISO 4630	< 10
Viscosity, Rheometer, 20 °C, C 35/1°, 250 s ⁻¹ , 80% in deaomat. HC 160 - 200	2,000 - 4,000 mPa·s
Delivery form	85% in deaomat. HC 160 - 200

Properties and Applications:

W'Kyd SD 7003 is a long oil alkyd resin. It is used in high quality undercoats and base coats, and in silk- and high gloss decorative paints. It is also suitable as combination partner in wood glazings. Systems on basis W'Kyd SD 7003 show fast drying and through drying, high initial hardness and good sandability. These systems show also a good outdoor- and yellowing resistance.

In silk gloss systems W'Kyd SD 7003 shows in combination with thixotropic alkyd resins, as e. g. W'Thix 670 hs, a good mattability and good processing- and levelling properties. For further optimization of the matting (faster gloss) is the W'Add 429 suitable.

Solubility:

W'Kyd SD 7003 is well soluble in aromatic and aliphatic hydrocarbons and in deaomatized white spirits and isoparaffines.



Worlée SD 7003

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Siccative Recommendation:

For the drying of W'Kyd SD 7003 following standard values are proposed:

cobalt containing

approx. 0.06% Co
approx. 0.1 - 0.15% Ca
approx. 0.1 - 0.15% Zr
(metal counted on solid alkyd resin)

cobalt free

- a) approx. 1.50 - 2.00% W'Add VP 2500
- b) approx. 1% Nuodex Drycoat (Rockwood)
- c) approx. 0.50% Mordry 420 (BRCS)

each counted on solid binder. In addition the use of secondary driers or special additives is recommended.

approx. 0.15% Ca

approx. 0.15% Zr

(each metal on solid binder)

and approx. 1% W'Add VP 2600 / VP 2610 for the improvement of the drying and especially the through drying, as well as for curing and drying stability. This addition is especially recommended for the cobalt-free drying b) and c).