

Technical Leaflet

WorléeSol 65 A

Art.-No. 111050-00653

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WorléeSol 65 A is an air-drying alkyd resin based on special fatty acids. It is water-thinnable after neutralization with ammonia or amines.

Technical Data:

Non volatile content, 1h/125 °C, DIN EN ISO 3251	70% ± 2
Oil type	special fatty acids
Oil content	approx. 30%
Density, 20 °C, DIN EN ISO 2811-1	approx. 1.05 g/cm ³
Acid value, on solids, DIN EN ISO 2114	30 - 40
Colour, Gardner, 45% in butyl glycol, DIN ISO 4630	max. 10
Flow time, 20 °C, 45% in butyl glycol, DIN EN ISO 2431	50 - 70 s
Delivery form	70% in butyl glycol / sec. butanol / Dowanol PnB 1:1:1

Application and Properties:

WorléeSol 65 A is a short-oil alkyd resin for the manufacture of water-thinnable, air-drying and forced drying primers and top coats. As neutralization agents could be used ammonia, triethyl amine, DMAMP 80, AMP 90 (Angus) or others.

$$\text{wt. amine} = \frac{\text{mol wt. amine} \times \text{acid value resin solids} \times \text{wt. Resin solids}}{56,100} = 100\% \text{ neutralization}$$

Primers based on WorléeSol 65 A have a very good corrosion resistance, when used with anti-corrosion pigments. Top coats for e. g. agricultural machineries with fast drying, high gloss, perfect leveling and early water spot resistance can be manufactured from WorléeSol 65 A without any problems. At a perfect formulating, also good recoatability is possible. WorléeSol 65 A can also be used for water-thinnable stoving systems.

The application of WorléeSol 65 A based paints can be done by conventional systems, e. g. spraying, dipping, flow coating, etc., but the viscosity at normal pressure spray should be 40 - 60 s. For a good paint stability the water / co-solvent ratio should be 80:20 or 85:15.

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pH-value: The pH-value should be adjusted after paint manufacturing to 8.2 - 8.5, which guarantees the best properties.

Drying:

The driers should be dispersed in the mill base.

Following driers are recommended for WorléeSol 65 A:

0.05 - 0.15% Co + 0.05 - 0.15% Mn for primers and coloured top coats
0.05% Co + 0.1% Ca + 0.1 - 0.6% Zr for white pigmented systems
(Metal on solid binder)

The addition of Pb- and Zn-driers should be avoided.

Our starting point formulations show which pigments, flattening agents and additives are approved.

Recommended Storage and Transport Conditions:

Up to +25 °C.
Avoid direct sunlight.

Shelf Life:

The storage stability of WorléeSol 65 A in the originally closed barrel is at a storage temperature from +5 to +25 °C twelve months, counted from the day of the delivery ex works.