

Technical Leaflet

WorléeSol 65 E

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W´Sol 65 E is an air drying short oil alkyd 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% ± 1
Oil content	approx. 30%
Oil type	special fatty acids
Flow time, 20 °C, 45% in butyl glycol, DIN 53211-4	30 - 60 s
Acid value, on solids, DIN EN ISO 3682	30 - 40 mg KOH/g
Colour, Gardner, 45% in butyl glycol, DIN ISO 4630	max. 10
Density, 20 °C, DIN EN ISO 2811-1	approx. 1.05 g/cm ³
Flash point, DIN EN 22719	38 °C
Delivery form	70% in ethoxy propanol

Application and Properties:

W´Sol 65 E is a short oil alkyd resin for the manufacture of water thinnable, airdrying and forced dried primers and top coats. As neutralization agents could be used ammonia, tri ethyl 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 W´Sol 65 E have a very good corrosion resistance, if they are pigmented with e.g. zinc phosphate PZ 20 / Alcophor 827 (Henkel). Top coats for e.g. agricultural machineries with fast drying, high gloss, perfect flow and early water spot resistance can be manufactured from W´Sol 65 E without any problems. At a perfect formulating, also good recoatability is possible. W´Sol 65 E can also be used for water thinnable stoving systems.

The application of W´Sol 65 E 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 DIN 53211-4, 4 mm cup.

For a good paint stability the water / cosolvent ratio should be 80 : 20 or 85 : 15.

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

The driers should be dispersed in the mill base.

For W´Sol 65 E based primers and top coats we recommend the following driers:

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 calculated 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.