

Technical Leaflet

WorléeSol 64 E

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W´Sol 64 E is a short oil air drying alkyd resin, modified with special fatty acids and water thinnable after neutralization with ammonia or amines.

Technical Data:

Non volatile content, 1h/125 °C, DIN EN ISO 3251	75% ± 2
Oil content	approx. 30%
Oil type	special fatty acids
Flow time, 20 °C, 50% in butyl glycol, DIN 53211-4	50 - 70 s
Acid value, on solids, DIN EN ISO 3682	35 - 45
Colour, Gardner, 50% in butyl glycol, DIN ISO 4630	max. 10
Density, 20 °C, DIN EN ISO 2811-1	approx. 1.06 g/cm ³
Delivery form	75% in ethoxy propanol

Application and Properties:

W´Sol 64 E is a fast drying alkyd resin for the manufacture of water thinnable air and forced drying primers and top coats. For neutralization ammonia, tri ethyl amine, AMP 90 (Angus) or similar can be used.

$$\text{wt.amine} = \frac{(\text{mol.wt.amine}) \times (\text{acid value resin solids}) \times (\text{wt resin solids})}{56.100} = 100\% \text{ neutralization}$$

Primers based on W´Sol 64 E show very fast drying and good anti corrosion properties. As chromate free anti corrosion pigment the combination zinc phosphate PZ 20/ Alcophor 827 (Henkel) has proved to be good. Also the formulation of high gloss paints without haze and with good outdoor resistance is possible with W´Sol 64 E.

The application of W´Sol 64 E systems is similar to the conventional systems, e.g. spraying, dipping, flow coating etc., however in case of pneumatic pressure spraying a viscosity of 40-60 s DIN 53211-4 should be achieved. For assuring a good stability of the ready products the water/cosolvent ratio should be at 80:20 or 85:15 respectively. 3-4% butyl glycol are recommended to be used also.

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pH-value:

After manufacture of the W´Sol paints the pH-value has to be controlled and if necessary adjusted. Optimal properties are achieved with a pH-value of 8.2 - 8.5.

Driers:

For better activity the driers should be also dispersed if possible. For W´Sol 64 E the following driers are recommended.

0.05 - 0.15% Co + 0.05 - 0.15% Mn for primers and coloured paints and
0.05% Co, 0.1 Ca, 0.1% - 0.6 % Zr for white pigmented systems
(as metal on solid content).

Pb and Zn driers should be avoided.

Recommended Storage and Transport Conditions:

Up to 25 °C.
Avoid direct sunlight.