

Technical Leaflet

WorléeSol 68 A

Art.-Nr. 111050-00685

Stand: 14.01.2025

Silicone modified, air-drying alkyd resin which is water thinnable after neutralization with ammonia or amines.

Technical Data:

Appearance	opaque liquid
Non-volatile content, 1h/125 °C, DIN EN ISO 3251	73 - 77 %
Oil type	special fatty acids
Oil content	approx. 32%
Silicone content	approx. 25%
Acid value, on solids, DIN EN ISO 2114	35 - 45 mg KOH/g
Colour, Gardner, 50% in butyl glycol, DIN ISO 4630	≤ 10
Flow time, 20 °C, 50% in butyl glycol, DIN EN ISO 2431	50 - 100 s
Delivery form	approx. 75% in butyl glycol

Application and Properties:

WorléeSol 68 A is especially suitable for the use as a single binder for the manufacture of extremely high quality, water thinnable industrial paints. As neutralization agents ammonia, triethylamine, DMAMP 80 or similar can be used.

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

WorléeSol 68 A can also be used as a binder for stoving enamels. Suitable reaction partners are melamine resins like Cymel 303 LF or similar.

Special Notes:

The pH-value should be checked and adjusted if necessary after finishing of WorléeSol based lacquers. Optimum properties will be achieved at a pH-value of 8.2 - 8.5.

Sustainability:

The bio-based amount is approx. 30% on the binder solids content.

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Siccative Recommendation:

Following drier reference values are recommended for WorléeSol 68 A:

0.05 - 0.15% Co

0.05 - 0.15% Mn

0.02 - 0.06% Fe

(metal on solid binder)

Shelf Life and recommended Conditions for Storage and Transport:

The storage stability of WorléeSol 68 A in the originally closed container is six months at a storage temperature between +5 and +25 °C, counted from the day of the delivery ex works.

Storage temperature up to +25 °C and avoid direct sunlight.