

Technical Leaflet

WorléeKyd SM 400

Art.-No. 111000-00589

Revision: 30.06.2022

WorléeKyd SM 400 is a short-oil, very fast drying alkyd resin based on drying vegetable fatty acids for the manufacture of air-drying and stoving primers and finishes.

Technical Data:

Content of phthalic anhydride	approx. 30%
Oil content	approx. 34%
Acid value, DIN EN ISO 2114	max. 20
Colour, Gardner, 50% in xylene, DIN ISO 4630	max. 10
Flow time, 20 °C, 50% in xylene, DIN EN ISO 2431	90 - 110 s
Delivery form	60% in xylene

Application and Properties:

WorléeKyd SM 400 is a general purpose alkyd resin with very good drying properties for primers and top coats. Particular is the excellent gloss retention also with critical pigments. Due to the reasonable compatibility with physically drying binders, e.g. vinyl mix polymerisates (Laroflex, BASF), special paint systems can be produced with WorléeKyd SM 400.

In combination with reactive urea resins in the ratio between 7:3 and 6:4, or melamine resins in the ratio of approx. 80:20, very fast curing stoving paints for stoving conditions 100 - 130 °C can be formulated.

Compatibility:

WorléeKyd SM 400 is compatible with most short-oil and some medium-oil alkyd resins. It is also compatible with some physically drying binders, e.g. vinyl mix polymerisates (e.g. Laroflex, BASF) and chlorinated rubber (e.g. Pergut, Covestro) WorléeKyd SM 400 is also compatible with the most usual butylated and isobutylated urea and melamine resins as well as with resin esters, maleic resins and modified phenolic resins.

Solubility:

WorléeKyd SM 400 is soluble in aromatic hydrocarbons, esters, ketones and glycol ethers. It is partially soluble in white spirit and terpenic hydrocarbons.

WorléeKyd SM 400

2

Drying:

Following driers are recommended for WorléeKyd SM 400:

a) cobalt-containing:

0.04 - 0.06% Co metal

0.05 - 0.10% Zr metal

0.10 - 0.20% Ca metal

calculated on 100% alkyd resin

b) cobalt-free:

2.00 - 3.00% WorléeAdd 2560

0.10 - 0.15% Zr metal

0.10 - 0.20% Ca metal

calculated on 100% alkyd resin

Shelf Life:

The storage stability of WorléeKyd SM 400 in the originally closed barrel is at a storage temperature from +5 to +25 °C six months, counted from the day of the delivery ex works.