

# WorléeSol E 150 W

## a new water-based alkyd emulsion

### What is it?

WorléeSol E 150 W is a new water-based medium oil PU alkyd emulsion which combines the good properties of conventional solvent based alkyd resins with the actual requirements for low VOC coatings! It is specially designed for the production of air drying water thinnable high gloss top coats.

### What makes it different?

WorléeSol E 150 W is internal emulsified that means it does not contain any emulsifier and differs therefore from other alkyd emulsions which contain emulsifiers!

### What are the advantages?

WorléeSol E 150 W has a very good and early water resistance . It shows fast drying even under unfavourable conditions, for example 35 °F at 100% relative humidity.

It offers a high gloss, gloss stability and an excellent adhesion to a variety of surfaces, including old alkyd coatings. It has less ambering (dark yellowing), a fast hardness development, even without a drier. Paints based on WorléeSol E 150 W show good gloss stability after storage. It has a good compatibility with many water thinnable alkyd resins and acrylic dispersions. Formulations based on WorléeSol E 150 W can comply with latest VOC regulations in North America and Europe.



### Where can it be used?

Clear brushing lacquers, clear wood finishes, interior and exterior flat coatings, industrial maintenance coatings, low solid wood stains, non flat - high gloss coatings, non flat interior and exterior coatings, pigmented lacquers, primers sealers and undercoaters, rust prevention coatings, sealers including clear wood sealers, specialty primers, stains, clear stains, varnishes and wood preservatives and more. Please ask for our starting point formulations.

### Property Profile

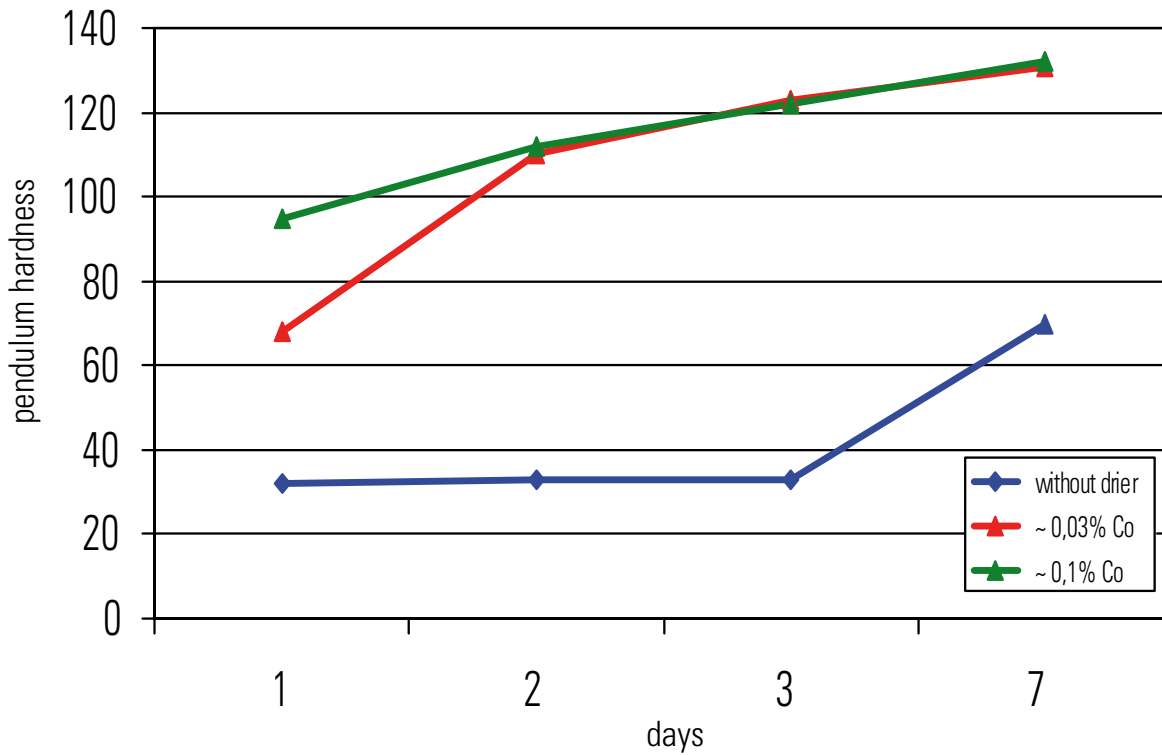
- almost no VOC
- good drying performance (even under unfavourable conditions)
- good brush application
- high gloss & good gloss stability
- less dark yellowing
- fast hardness development
- early water resistance
- good weather resistance
- good insulating properties

### Applications

- wood primer
- wood pre-coatings
- semi gloss wood paints
- high gloss wood paints
- clear wood coats
- wood stains
- anti-corrosion primers
- industrial top coats
- stoving enamels
- insulating paints

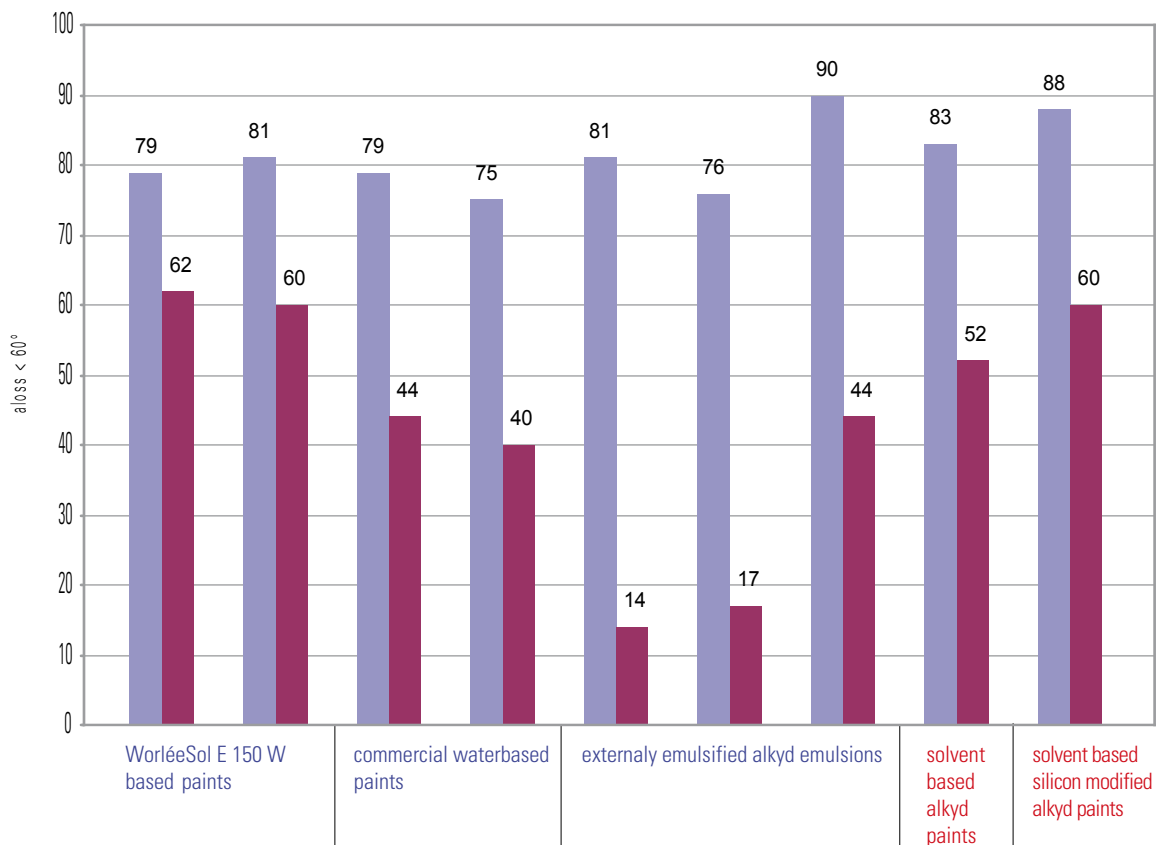
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## Hardness Development



## QUV-A test of decorative paints

[Initial gloss level and after 1152 h QUV-A exposure]



## Description

W'Sol E 150 W is medium oil PU-alkyd emulsion, especially designed for the manufacture of air-drying water thinnable high gloss top coats.

## Technical Data

Oil content approx.	44%
Non volatile content, 1h/125 °C, DIN EN ISO 3251	40% ± 2
Acid number, on solids, DIN EN ISO 3682	< 30
pH-value, DIN ISO 976	7 - 8
Viscosity (20 °C), Brookfield, spindle 4/20 rpm, DIN EN ISO 2555	50 - 1,500 mPa·s

## Application and Properties

W'Sol E 150 W is mainly suitable for the manufacture of fast air and forced drying systems. Top coats with high gloss, excellent hardness and very good water resistance can be formulated. Furthermore a good outdoor resistance should be mentioned. Paints based on W'Sol E 150 W show good gloss stability after storage.

Further application fields for W'Sol E 150 W are air drying decorative, house and DIY-paints as well as wood protective glazings.

W'Sol E 150 W shows good compatibility with many water thinnable alkyd resins and acrylic dispersions. Of course, a thorough compatibility test should be done.

Drier recommendation: 0- 0.1% Co (metal on solid binder).

## Recommended Storage and Transport Conditions

5 to 25 °C.

Protect against freezing and avoid direct sunlight.

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