Technical Leaflet

WorléeDur D 46

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W´Dur D 46 is a short oil epoxy ester based on conjugated drying fatty acids. It is used in air-drying and stoving finishes with outstanding adhesion, rapid drying and good chemical resistance.

Technical Data:

Content of epoxy resin	approx. 60%
Oil content	approx. 40%
Colour, 50% in xylene, Gardner, DIN ISO 4630	max. 10
Acid value, DIN EN ISO 3682	max. 4
Flowtime, 20 °C, 50% in xylene, DIN 53211-4	200 - 250 s
Delivery form	60% in xylene

Compatibility:

W´Dur D 46 is compatible with unplasticized urea and melamine formaldehyde resins, with the short-oil alkyd resin W´Kyd L 138, MH 38 and with the phenolic modified rosin esters W´Fen F 105 and F 130. It is partially compatible with W´Kyd T 730 and SM 400.

Solubility:

W´Dur D 46 is readily soluble in aromatic solvents, esters, ketones and glycol ethers. It has limited solubility in higher alcohols, and is insoluble in aliphatic solvents and lower alcohols.

Application and properties:

W´Dur D 46 is an excellent binder for quick-drying primers and top-coats with very good adhesion and chemical resistance.

Zinc-rich primers based on W´Dur D 46 have very good stability and anticorrosive properties. W´Dur D 46 is also used as a binder for screen printing inks with good adhesion on a variety of plastic substrates.

The addition of W´Dur D 46 to air-drying zinc chromate primers based on W´Kyd L 138 or MH 38 improves the adhesion, corrosion and alkali resistance.

W´Dur D 46 is also used in combination with unplasticized amino resins for high quality stoving primers and top-coats for washing machines and similar applications. In combination

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with reactive melamine resins a mixing ratio of 80:20 - 90:10. and with reactive urea resins 70:30 - 80:20 (calculated on solids content) is recommended. The best stoving temperature is 120-140 °C.

Driers:

The following driers are recommended for W´Dur D 46:

0.01 - 0.02% Co

0.05 - 0.10% Ca

calculated on 100% alkyd resin

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