

Technical Leaflet

WorléePol 1181/03

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WorléePol 1181/03 is a saturated, low viscous polyester resins for the modification of solvent based and aqueous systems showing high elasticity, surface hardness and resistance to chemicals.

Technical Data:

Viscosity, Rheometer, 25 °C, C 35/1°, 100 s ⁻¹	1,700 - 2,700 mPa·s
OH number, according to DIN EN ISO 4629-2	310 - 350 mg KOH/g
Hydroxyl content	10.0% ± 0.6
Acid value, DIN EN ISO 2114	< 2 mg KOH/g
Water content, DIN 51777, part 1	< 0.1%
Colour, Gardner, DIN ISO 4630	max. 1
Density, 20 °C, DIN EN ISO 2811-1	approx. 1.1 g/cm ³
Tg Glass transition temperature	approx. - 48 °C
Delivery form	solvent free

Application and Properties:

Due to its wide compatibility WorléePol 1181/03 can be used in various systems. Normally this polyester resin is used as a modifying component for isocyanate- and amino crosslinking coatings for solvent based as well as for aqueous systems. In corresponding combinations the use of WorléePol 1181/03 improves the flexibility considerably. Often adhesion and gloss are increased at the same time. Very good chemical and mechanical resistance properties are achieved due to the high OH-content which result in a high crosslinking compactness.

In aqueous 2 component PUR systems WorléePol 1181/03 is often combined with polyurethane dispersions which improves the quality considerably even regarding chemical and mechanical resistance.

The recommended addition rate is between 2 - 8% calculated on total formulation.

Handling and Storage:

WorléePol 1181/03 is sensitive to moisture and should therefore always be stored in sealed containers.

Shelf Life:

The storage stability of WorléePol 1181/03 in the originally closed barrel is at a storage temperature from + 5 to + 25 °C twelve months, counted from the day of the delivery ex works.