

## Technical Leaflet

# WorléePol 1181/03

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W'Pol 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 <sup>-1</sup>	1,700 - 2,700 mPa·s
OH number (mg KOH/ g), according to DIN 53240-2	310 - 350
Hydroxyl content	10.0% ± 0.6
Acid value (mg KOH/ g), DIN EN ISO 3682	< 2
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 <sup>3</sup>
Tg Glass transition temperature	approx. - 48 °C
<b>Delivery form</b>	solvent free

### Application and Properties:

Due to its wide compatibility W'Pol 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 W'Pol 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 W'Pol 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:

W'Pol 1181/03 is sensitive to moisture and should therefore always be stored in sealed containers. When stored under proper conditions the product has a shelf life of min. six months from date of delivery.