



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/cm³
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.

The above declarations serve for information purposes only. In particular, they shall not be relevant to define binding specifications for any orders. With respect to any order, the specifications shall be governed by the provisions of the sales contract to be concluded between the parties (e.g. the "product specification"). Any deliveries are exclusively subject to our general standard terms and conditions in their respectively valid version. We will be happy to provide you with the general standard terms and conditions upon your request and

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