

Technical Leaflet

WorléeCryl A 1220

Art.-No. 112001-01278

Revision: 05.02.2024

WorléeCryl A 1220 is an acrylic resin which can be cross-linked with polyisocyanates.

Technical Data:

| | |
|---|---|
| Non-volatile content, 1h/125 °C, DIN EN ISO 3251 | 60% ± 1 |
| Acid value, on solids, DIN EN ISO 2114 | < 10 |
| Colour, Gardner, DIN ISO 4630 | < 1 |
| Viscosity, Rheometer, 20 °C, C 60/2°, 200 s ⁻¹ | 1,000 - 2,000 mPa·s |
| Hydroxyl number, on solids, DIN EN ISO 4629-2 | approx. 66 |
| Hydroxyl content, on solids | approx. 2.0% |
| Glass transition temperature T _g | approx. 53 °C |
| Delivery form | approx. 60% in n-butyl acetate 98 / 100 |

Application and Properties:

WorléeCryl A 1220 is an acrylate copolymer for the manufacture of high-quality plastic coatings. Due to good adhesion properties even on metal this product is also suitable for paints on device casings manufactured in mixed construction, metal and plastic.

Compatibility:

| | |
|----------------------------|--------|
| Tolonate HDB* | + |
| Desmodur N | + |
| Desmodur L | + |
| Desmodur HL | + |
| Nitrocellulose | partly |
| Cellulose acetate butyrate | partly |
| Melaminharz | + |
| WorléePol 6625 | + |

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Solubility:

| | |
|------------------------|---|
| Aliphatics | - |
| Aromatics | + |
| Esters | + |
| Ketones | + |
| Glykol ethers, -esters | + |
| Alcohols | - |

Cross-linking:

For 100% cross-linking per 100 g WorléeCryl A 1220:

18,1 g Tolonate HDB* 75

25,8 g Desmodur L 67

28,3 g Desmodur HL

The necessary equivalent quantity of polyisocyanates can be calculated according to the following formula:

$$\text{Polyisocyanate quantity} = \frac{42 \times \% \text{ OH}}{17 \times \text{NCO}} \times 100$$

(42 = molecular weight of NCO-group)

(17 = molecular weight of OH-group)

Shelf Life:

The storage stability of WorléeCryl A 1220 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.

*Tolonate is a product of Vencorex. Distribution for Denmark, Finland, Sweden and Norway as well as for Austria, Switzerland and Germany by Worlée-Chemie GmbH.