

Technical Leaflet

WorléeCryl A 1218

Art.-No. 112001-00091

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WorléeCryl A 1218 is an acrylic resin which can be cross-linked with polyisocyanates.

Technical Data:

Non-volatile content, 1h/125 °C, DIN EN ISO 3251	50% ± 1
Acid value, on solids, DIN EN ISO 2114	10 ± 2
Colour, Gardner, DIN ISO 4630	max. 1
Viscosity, Rheometer, 20 °C, C 60/2°, 80 s ⁻¹	6,000 ± 1,000 mPa·s
Hydroxyl number, on solids, DIN EN ISO 4629	58 ± 10
Hydroxyl content, on solids	approx. 1.8%
Glass transition temperature	76 °C
Delivery form	50% in butyl acetate

Application and Properties:

WorléeCryl A 1218 is an acrylic copolymer for the manufacture of fast drying wood and furniture lacquers.

High reactivity and very high initial hardness with relatively long pot life are the special advantages of this product.

There is compatibility with cellulose acetobutyrate (CAB).

Compatibility:

Tolonate HDB*	+
Desmodur N	+
Desmodur L	+
Desmodur HL	+
Nitrocellulose	+
Cellulose aceto butyrate	+

Solubility:

Aliphatics	-
Aromatics	+
Esters	+

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Ketones	+
Glycol ethers, -esters	+
Alcohols	-

Cross-linking / Catalysing:

For 100% transfer for 100 g WorléeCryl A 1218, 50% is needed:

13.3 g Tolonate HDB* 75

18.9 g Desmodur L 67

20.7 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)

If the cross-linking should be accelerated it is recommended to add e.g. a small amount of DBTDL or zinc octoate or a 1% solution of diethylethanol amine in xylene. The shortened pot life has to be considered.

Pigmentation:

WorléeCryl A 1218 is pigmentable with all neutral, water-free pigments and fillers.

Shelf Life:

The storage stability of WorléeCryl A 1218 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.