

Technical Leaflet

WorléeCryl A 1218

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W´Cryl A 1218 is an acrylic resin which can be crosslinked with polyisocyanates.

Technical Data:

Non volatile content, DIN EN ISO 3251	50% ± 1
Viscosity, 20 °C, Brookfield, DIN EN ISO 2555	6,000 ± 1,000 mPa·s
Hydroxyl value, on solids, DIN EN ISO 4629	58 ± 10
Hydroxyl content, on solids	approx. 1.8%
Glass transition temperature	76 °C
Colour, Gardner, delivery form, DIN ISO 4630	< 1
Acid value, on solids, DIN EN ISO 3682	10 ± 2
Delivery form	50% in butyl acetate

Application and Properties:

W´Cryl 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.

Compatibility:

Tolonate HDB (Vencorex)	+
Desmodur N (Bayer)	+
Desmodur L (Bayer)	+
Desmodur HL (Bayer)	+
Nitrocellulose	+
Cellulose aceto butyrate	+

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Solubility:

aliphatics	-
aromatics	+
esters	+
ketones	+
glycol ethers, -esters +	
alcohols	-

+ soluble - insoluble

Cross-linking / catalization:

For 100% cross-linking per 100 g W'Cryl A 1218, 50%

13.3 g Tolonate HDB 75 (Vencorex) or
18.9 g Desmodur L 67 (Bayer) or
20.7 g Desmodur HL (Bayer)

are required.

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

$$\text{Quantity polyisocyanate} = \frac{42 \times 100}{17 \times \% \text{NCO}} \times \% \text{OH}$$

(42 = molecular weight of NCO-group)

(17 = molecular weight of OH-group)

If the crosslinking 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:

W'Cryl A 1218 s pigmentable with all neutral, water-free pigments and fillers.

Durability:

Stored in original packaging and at room temperature W'Cryl - hydroxy acrylates have a durability of 12 months.