

Technical Leaflet

WorléeCryl A 2116

Art.-No. 112001-02286

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WorléeCryl A 2116 is a styrene acrylic which can be crosslinked with polyisocyanates.

Technical Data:

Non volatile content, 1h/125 °C, DIN EN ISO 3251	60% ± 1
Viscosity, Rheometer, 20 °C, C 60/2°, 200 s ⁻¹	2,000 - 2,500 mPa·s
Hydroxyl value, on solids DIN EN ISO 4629	approx. 54
Hydroxyl content, on solids	1.6%
Glass transition temperature (Tg)	approx. 38 °C
Colour, Gardner, delivery form, DIN ISO 4630	max. 2
Acid value, on solids, DIN EN ISO 3682	max. 3
Delivery form	60% in aromatic HC 155 - 180

Application and Properties:

WorléeCryl A 2116 is used for the manufacture of fast drying industrial paints. For achieving an optimal adhesion on steel crosslinking with Tolonate HDB (Vencorex) is necessary.

Very high gloss, good flow and good pigmentability.

The very good compatibility with WorléeThix A 2125 is, especially for manufacturing effect finishes, another advantage of this resin.

Due to the special solvent even decorative paints can be formulated with WorléeCryl A 2116.

Compatibility :

Tolonate HDB (Vencorex)	+
Desmodur N (Bayer)	+
Desmodur L (Bayer)	-
Melamine resin	+



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Solubility:

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

Crosslinking / Catalization:

For 100% crosslinking per 100 g W'Cryl A 2116, 60%

14.5 g Tolonate HDB 75 (Vencorex)

The necessary equivalent quantity of polyisocyanates to be added 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 a small amount of organo tin or zinc compounds or tertiary amines (we recommend 1% solution of diethylethanol amine in xylene). The shortened pot life has to be considered. The shortened pot life has to be considered. As thinner butyl acetate, ethyl glycol acetate, xylene, Shellsol A or Solvesso 100 respectively are used.

For optimal film properties like flow, slip, substrate wetting etc. the addition of 2% WorléeAdd V 832 is recommended.

Pigmentation:

WorléeCryl A 2116 shows high pigment binding properties. For pigmenting normally all neutral pigments and inert fillers can be used. Paints based on W'Cryl A 2116 have very good pigment binding properties. WorléeCryl A 2116 is pigmentable with all neutral, water-free pigments and fillers.

Shelf Life:

The storage stability of WorléeCryl A 2116 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 Austria, Germany and Switzerland by Worlée-Chemie GmbH.