

Technical Leaflet

WorléeCryl A 1135

Art.-No. 112001-00032

Revision: 21.06.2022

WorléeCryl A 1135 is an acrylic resin which can be cross-linked with polyisocyanates.

Technical Data:

Non volatile content, 1h/125 °C, DIN EN ISO 3251	60% ± 2
Viscosity, Rheometer, 20 °C, C 35/1°, 250 s ⁻¹	3,000 - 4,000 mPa·s
Hydroxyl value, on solids, DIN 53240	approx. 115
Hydroxyl content, on solids	3.5%
Glass transition temperature	48 °C
Colour, Gardner, delivery form, DIN ISO 4630	max. 1
Acid value, on solids, DIN EN ISO 2114	< 3
Delivery form	60% in xylene

Application and Properties:

WorléeCryl A 1135 is an acrylic copolymer for the manufacture of high quality industrial paints. Paints based on this resin show excellent resistances against water, solvents and chemicals.

So a wide range of application is given, especially for the coating of industrial and construction machines, high capacity vehicles etc.

Also for formulating car repair finishes this resin can be used.

One coat adhesion on steel is achieved by cross-linking with aliphatic isocyanates.

Compatibility:

Desmodur N	+
Desmodur L	+
Nitrocellulose	+/-
Cellulose aceto butyrate	+/-
Melamine resin	+
WorléePol 6625	+

WorléeCryl A 1135

2

Solubility:

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

Cross-linking / Catalization

For 100% cross-linking per 100 g WorléeCryl A 1135, 60%

31.6 g Desmodur N 75 (Bayer)

45.0 g Desmodur L 67 (Bayer)

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 organotin or zinc compounds or tertiary amines (we recommend 1% solution of diethanol amine in xylene). The shortened pot life has to be considered. As thinner butyl acetate, ethyl glycol acetate, xylene, Shellsol A or Solvesso 100 respectively are used.

Pigmentation:

WorléeCryl A 1135 shows high pigment binding properties. For pigmenting normally all neutral and water-free pigments and inert fillers can be used.

Shelf Life:

The storage stability of WorléeCryl A 1135 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.