

Technical Leaflet

WorléeThix A 1420

Art.-No. 112005-00075

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WorléeThix A 1420 is a thixotropic, hydroxyfunctional pure acrylate for the manufacture of two component top coats.

Technical Data:

Non volatile content, 1h/125 °C, DIN EN ISO 3251	50% ± 2
Hydroxyl value, on solids, DIN EN ISO 4629	approx. 66
Hydroxyl content, on solids	2.0%
Glass transition temperature	63 °C
Acid value, on solids, DIN EN ISO 2114	max. 12
Colour, Gardner, delivery form, DIN ISO 4630	approx. 1
Flash point, DIN EN 22719	approx. 26 °C
Viscosity	thixotropic, soft gel
Delivery form	50% in butyl acetate 98 / 100

Application and Properties:

WorléeThix A 1420 can be combined for air and forced drying 2 pack wood and plastic coatings. After curing the coating exhibits hardness, chemical and weather resistance.

Application fields for WorléeThix A 1420 are pigmented and colourless wood coating systems. In these coating formulations WorléeThix A 1420 is used for adjusting the stability at vertical surfaces.

Compatibility:

Tolonate HDB*	+
Desmodur L (Bayer)	+

Solubility:

White spirit	-
Aromatics	+
Esters	+
Ketones	+
Glycol ethers, -esters	+
Alcohols	-

WorléeThix A 1420

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Cross-linking / Catalization:

For 100% cross-linking per 100 g WorléeThix A 1420, 50%

15.1 g Tolonate HDB 75

21.5 g Desmodur L 67 (Bayer)

23.6 g Desmodur HL (Bayer)

are required.

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)

The curing of WorléeThix A 1420 can be accelerated by incorporating DBTL, zinc octoate, diethanolamin. The shortened pot life has to be considered.

Pigmentation:

WorléeThix A 1420 shows high pigment binding properties and is pigmentable with all neutral, water-free pigments and fillers.

Recommended Storage- and Transport Conditions:

Avoid direct sunlight, do not store above 30 °C.

Shelf Life:

The storage stability of WorléeThix A 1420 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.