

SYNTHALAT A 1633

Charakteristics: Acrylic resin cross-linking with polyisocyanate.

Supplied as: 50% in xylene/butyl acetate (1:1)

> В 50% in butvl acetate

С 50% in shellsol A/ethoxy propyl acetate (3:1)

Use: In combination with aromatic and aliphatic polyisocyanates for fast drying 2-component

polyurethane coatings, particularly suitable for coating furniture.

Properties: В С hydroxyl value 60-75 60-75 60-75

(in-house method AV-F-H003)

(relative to nvc)

hydroxyl content ca. 2.0% ca. 2.0% ca. 2.0%

2,800 - 3,400 viscosity in mPas

(as supplied) (in-house method AV-F-V005)

flow time in sec. 160 - 200 100 - 140 (as supplied)

(in-house method AV-F-V003)

< 2 < 2 < 2 Gardner colour value (as supplied)

(in-house method AV-F-F007)

non-volatile content 50 +/- 1% 50 +/- 1% 50 +/- 1%

(as supplied) (in-house method AV-F-F003)

flash point in ℃ 27 37 21 (as supplied)

(in-house method AV-F-F006)

density in g/ml 0.994 1.0 1.0

(as supplied) (in-house method AV-F-D001)

Properties and fields

SYNTHALAT-A 1633 is a fast drying polymethacrylate, that permits manufacture of very quick drying 2-component coating systems. These coatings are suitable for industrial furniture

coatings and other wood coatings.

The good compatibility with "Desmodur" types HL and IL makes it possible to achieve a rapid

stackability even without physical drying additives such as nitrocellulose.

The use of Cellit and NC with "Desmodur N and L" also permits fast drying coatings with long

pot lives.

Mixing ratio with polyisocyanate:

of use:

Assuming equivalent reaction of the reactive groups (NCO: OH = 1:1), the following formula applies for calculation of the amount of polyisocyanate to be added (relative to 100 parts by

weight of SYNTHALAT-A 1633, solid):

42 X 100 X 2,0 17 X NCO %

42 molecular weight of the NCO group 17 molecular weight of the OH group

hydroxyl content of SYNTHALAT-A 1633 in % relative to non-volatile 2.0

components

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SYNTHALAT A 1633

Sol	ubi	lity/
Dile	utak	oility

Ethyl acetate + MEK +
Butyl acetate + MIBK +
MGA + Toluene +
EGA + Xylene +
Butoxyl + Solvesso 100 und 150 column
White spirit -

+ = dilutable - = not dilutable x = largely dilutable o = sparingly dilutable

Make sure that only anhydrous solvents and those containing no hydroxyl groups are used.

Compatibility:

Solid resin:	Synthalat-A 1633	90	75	50	25	10 %
Solid resin:	reatktion partner	10	25	50	75	90 %
Synthalat	A 045	-	-	-	-	-
	A 055	+	-	-	-	-
	A 065	+	-	-	-	-
	A 075	+	+	+	+	+
	A 085	+	-	-	-	+
	A 135	+	+	+	+	+
	A 141 HS	+	+	+	+	+
	A 150	+	+	+	+	+
	A 151	+	+	+	+	+
	A 190	+	+	+	+	+
	A 1613	+	+	+	+	+
Synthoester	HD 170 HS	+	+	+	+	+
	1018	+	+	-	-	+
	1130	+	+	-	-	-
NC-Chips E 510		+	+	+	+	+
Vinylite VAGH		+	+	+	+	+
Vinylite VROH		+	+	+	+	+
CAB 551-0,01		+	+	+	+	+
CAB 381-0,1		+	+	+	+	+
CAB 381-0,5		+	+	+	+	+
CAB 381-0,2		+	+	+	+	+
CAP 482-0,5		+	+	+	+	+

Desmodur N + Based on an equalent reaction of the Desmodur L + reactive groups (NCO:OH=1:1)
Desmodur HL + Desmodur IL +

+ = compatible - = incompatible

Shelf-life:

If stored properly at least one year.

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