

## SYNTHOESTER 1130

### Characteristics:

Saturated polyester containing hydroxyl groups, modified with a non-drying fatty acids.

### Supplied as:

A = 75% in xylene  
B = 75% in butyl acetate

### Properties:

	A	B
<u>hydroxyl value</u> (in-house method AV-F-H003)	128-152	128-152
<u>hydroxyl content</u> (relative to nvc)	appr. 4.3%	appr. 4.3%
<u>viscosity in mPas</u> A:(50% Xylene) A:(as supplied) B:(as supplied) (in-house method AV-F-V005)	50-95 3,100 – 3,800	1,300-1,500
<u>Iodine colour value</u> (as supplied) (in-house method AV-F-F007)	< 4	< 4
<u>non-volatile content</u> (as supplied) (in-house method AV-F-F003)	75 +/- 1%	75 +/- 1%
<u>acid value</u> (relative to nvc) (in-house method AV-F-S001)	< 15	< 15
<u>flash point in °C</u> (as supplied) (in-house method AV-F-F006)	36	32
<u>density in g/ml</u> (as supplied) (in-house method AV-F-D001)	1.03	1.05

### Properties and fields of use:

In combination with isocyanate pre-polymers, such as Desmodur L, IL, HL, N, VL, for air-drying two-component polyurethane coatings. Synthoester 1130 is especially suitable for fast drying polyurethane coatings in combination with Desmodur IL or HL.

The low OH-content makes relatively long pot lives of mixtures possible, providing very good application possibilities with casting machines.

### Mixing ratio with polyisocyanate:

100 parts by wt of Synthoester 1130/75% (form in which supplied) are equivalent of the following amounts of Desmodur:

Desmodur HL 60	70 parts by wt.
Desmodur IL 50	92 parts by wt.
Desmodur L 67	64 parts by wt.
Desmodur L 75	57 parts by wt.
Desmodur N	45 parts by wt.
Desmodur VL	25 parts by wt.

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### Processing information:

The amount of Desmodur added may deviate by +/- 20% from the equivalent amount. For primers and intermediates coats, undercuring, and for topcoats exposed to unusual conditions, overcuring is recommended.

As with all polyurethane coatings, solvents containing hydroxyl groups should not be used. Suitable solvents are ketones, esters and most aromatic solvents. Solubility and compatibility with reaction partners are as follows:

Solvents		Di- and polyisocyanate	
Ethyl acetate	+	Desmodur N	+
Butyl acetate 98/100	+	Desmodur L	+
Methyl glycol acetate	+	Desmodur HL	+
Ethyl glycol acetat	+	Desmodur IL	+
Acetone	+	Desmodur VL	+
MEK	+		
MIBK	+		
Toluene	0 to 15% non-vol. comp.		
Xylene	0 to 30% non-vol. comp.		
<u>Hydroxyl polyesters</u>			
Synthoester 1120	0 to 1:1		
Synthoester 1018	+		
Synthoester 1080	+		
Synthoester 1110	0 to 1:1		

### Storage:

In closed containers, protected from moisture, can be stored for at least 12 months.