

SYNTHALAT A 078 HV

Characteristics:	Polyisocyanate-curing acrylic resin	
Supplied as:	65% in shellsol A	
Use:	2-pack coatings which are air- and oven-drying in combination with aliphatic polyisocyanates, for industrial coatings offering good mechanical properties plus resistance to chemical attack and weathering.	
Properties:	<u>hydroxyl value</u> (in-house method AV-F-H003)	80-95
	<u>hydroxyl content</u> (relativ to nvc)	ca. 2.6%
	<u>viscosity in mPas</u> (as supplied) (in-house method AV-F-V005)	10 000-15 000
	<u>Gardner colour value</u> (as supplied) (in-house method AV-F-F007)	< 2
	<u>non-volatile content</u> (as supplied) (in-house method AV-F-F003)	65 +/- 1%
	<u>flash point in °C</u> (as supplied) (in-house method AV-F-F006)	ca. 40
	<u>density in g/ml</u> (as supplied) (in-house method AV-F-D001)	1.01
Pigmentation:	Any neutral pigments or fillers are suitable for pigmentation. Basic pigments and pigments containing soluble metal compounds may have a catalytic effect on curing and shorten the pot life of coating batches once mixed.	
Mixing ratio with poly-isocyanates:	Based on an equivalent reaction of the reactive groups (NCO : OH = 1 : 1) the formula below calculates the quantity of polyisocyanate to be added, relative to 100 pts/wt solid Synthalat-A 078 HV: $\frac{42 \times 100 \times 2.6}{17 \times \text{NCO}\%}$ 42 = molecular weight of NCO groups 17 = molecular weight of OH groups 2.6 = % hydroxyl content of Synthalat-A 078 HV, relative to non-volatile content	

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Solubility/ Dilutability:

Solvent	Thinned solution clear to % non-vol. comp.				
	50	40	30	15	5
Ethyl acetate	+	+	+	+	+
Butyl acetate	+	+	+	+	+
Xylene	+	+	+	+	+
Shellsol A	+	+	+	+	+
Solvesso 150	+	+	+	+	+
Ethoxypropyl acetate	+	+	+	+	+
MEK	+	+	+	+	+
MIBK	+	+	+	+	+
Toluene	+	+	+	+	+
Butoxyl	+	+	+	+	+
White spirit	+	-	-	-	-

+ = perfectly clear
o = slight turbidity
- = marked turbidity

NB: only non-aqueous solvents and those containing no hydroxyl groups may be used.

Compatibility:

Non-vol comp.	A 078 HV /60%	90	75	50	25	10 %
Non-vol comp.	Combined with	10	25	50	75	90 %
Synthalat	A 045	+	+	+	+	+
	A 055	+	+	+	+	+
	A 065	+	+	+	+	+
	A 060	+	+	+	+	+
	A 075	-	-	-	-	-
	A 077	+	+	+	+	+
	A 085	+	+	+	+	+
	A 088 "MS"	+	+	+	+	+
	A 090	+	+	+	+	+
	A 135	+	+	+	+	+
	A 141 HS	+	+	+	+	+
	A 150	+	+	+	+	+
	A 150 S	-	-	-	-	-
	A 151	-	-	-	-	+
	A 190	-	-	-	-	-
	A 192	-	-	-	-	-
	A 1613	+	+	+	+	+
	A 1633	-	-	-	+	+
	A 1653	+	+	+	+	+
	Synthoester	HD-080	+	+	+	+
HD 165		-	-	-	-	-
HD 170 HS		+	+	+	+	+
1018		-	-	-	-	-
1130		+	+	+	+	+
Vynlite VAGH		-	-	-	-	+
Vynlite VROH		-	-	-	-	+
NC chips E 510		+	+	+	+	+
CAB 551-001		-	-	-	+	+
Desmodur	N 75%:	+	Desmodur	N 3390 90%:		+
Desmodur	L 75%:	+	Desmodur	IL:		-
Desmodur	HL:	-				
+	=	compatible	-	=	incompatible	