



**ATTIKA**  
Resin's expert

GK Attica  
Russia, St-Petersburg, Tosnensky district, Annolovo  
village, Fedorovskoye rural settlement,  
Vertikalnuy 2nd passage, building 9  
Index: 187046  
Tel: +7 (812) 441-21-80  
[www.attikarus.ru](http://www.attikarus.ru)

## SYNTHALAT A 077 (RUS)

<b>Manufacturer:</b>	Attika Co. Ltd., Russia	
<b>Characteristics:</b>	Polyisocyanate-curing acrylic resin	
<b>Supplied as:</b>	60% in xylene	
<b>Use:</b>	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.	
<b>Properties:</b>	<u>Hydroxyl value</u> (Russia state standard (GOST) 25261)	80-100
	<u>Hydroxyl content, %</u>	ok. 2,6
	<u>Viscosity in mPas</u> (Russia state standard (GOST) 25271)	1300-2300
	<u>Gardner colour value</u> (Russia state standard (GOST) 19266)	< 2
	<u>Non-volatile content, %</u> (Russia state standard (GOST) 31939)	58,0-62,0
	<u>Flash Point, °C</u> (ISO 13736)	24
	<u>Density, g/ml</u> (Russia state standard (GOST) 31992.1)	1,01
<b>Pigmentation:</b>	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.	
<b>Mixing ratio with poly-isocyanates:</b>	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 077: $\frac{42 \times 100 \times 2.6}{17 \times \text{NCO}\%}$ 42 = molecular weight of NCO groups 17 = molecular weight of OH groups 2.6 = % hydroxyl content of Synthalat-A 077, relative to non-volatile content	



**ATTIKA**  
Resin's expert

GK Attica  
Russia, St-Petersburg, Tosnensky district, Annolovo  
village, Fedorovskoye rural settlement,  
Vertikalnuy 2nd passage, building 9  
Index: 187046  
Tel: +7 (812) 441-21-80  
[www.attikarus.ru](http://www.attikarus.ru)

**Solubility/  
Dilutability:**

Solvent	Thinned solution clear to					% non-vol.
	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	A 077 /60%	90	75	50	25	10 %
Non-vol comp.	Combined	10	25	50	75	90 %
Synthalat	with					
	A 045	+	+	+	+	+
	A 055	+	+	+	+	+
	A 065	+	+	+	+	+
	A 060	+	+	+	+	+
	A 075	-	-	-	-	-
	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	+	+	+	+	+
Vinylite VAGH		-	-	-	-	+
Vinylite VROH		-	-	-	-	+
NC chips E 510		+	+	+	+	+
CAB 551-001		-	-	-	+	+

Attonate AL 75%: +; Attonate AL 3390%:+Attonate AR 75%: +Desmodur IL: - Desmodur HL: -  
+ = compatible; - = incompatible

**Shelf-life:** When properly stored, at least one year.