

STANDARD CATALYSTS

CATALYST	9	14	15
Туре	Modified aliphatic amine	Anhydride	Polyamide
Viscosity	80 – 100 mPa.s	Powder	20 – 40 Pa.s
Colour	Amber	White	Black
Density (g/cm ³)	0,99 - 1,01	0,77 - 0,79	0,95 - 0,98
Amount of Catalyst used	1,00	2,5	7,0
in relation to			
CATALYST 9			
(in x CATALYST 9)			
Pot life	45 min	24 h	2 h
(100 g at 25°C)			
Shelf life at RT	1 year in unopened	1 year in	1 year in
	containers	unopened containers	unopened containers
Cure schedule	16 to 24 h at RT	3 h at 150°C	16 to 24 h at RT
	or	+	or
	2 to 4 h at 65°C	3 to 16 h at 180°C	2 h at 80°C
Service Temperature (°C)			
- Continuous	120	230	90
- Intermittent	150	260	120
Advantages	Chemical resistant	High temperature	RT cure
	Physical Strength	performance	Adjustable flexibility
	RT cure	Chemical resistance	Pot life
	Low viscosity	Pot life	Low toxicity
	Low cost	Increases viscosity of	Wide mixing ratio
	Good for General Purpose	epoxy systems	Low cost
	Applications		
Disadvantages	Brittle (not good for low	High temperature cure	High viscosity
	temperature)	Odour	Softens at elevated
	Pot life		temperature
	Toxicity		
Other comments	Good all-round epoxy	Keep away from	Easiest epoxy curative to
	curative	moisture. For lower viscosity use	use. Can mix with epoxy even without sophisticated
		Catalyst 17	weighing equipment
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STANDARD CATALYSTS (cont)

CATALYST	15 LV	17	23 LV	24 LV
Туре	Polyamide	Anhydride	Modified aliphatic amine	Modified aliphatic amine
Viscosity	5 – 15 Pa.s	slurry (at 35°C)	20 - 30 mPa.s	30 - 40 mPa.s
Colour	Black	Blue - grey	Water-white to slight	Water white to slight
			amber	amber
Density (g/cm³)	0,95 - 0,98	1,3 - 1,5	1,00 - 1,03	1,00 - 1,03
Amount of Catalyst used	3,5 – 14,0	2,8	2,10	2,05
in relation to				
CATALYST 9				
(in x CATALYST 9)				
Pot life	2 h	24 h	60 min	30 min
(100 g at 25°C)				
Shelf life at RT	1 year in unopened	1 year in unopened	1 year in unopened	1 year in unopened
	containers	containers	containers	containers
Cure schedule	16 to 24 h at RT	3 h at 120°C	16 to 24 h at RT	8 to 16 h at RT
	or	+	or	or
	2 h at 80°C	2 h at 150°C	4 h at 65°C	2 h at 65°C
		+		
		16 h at 175°C		
Service Temperature (°C)				
- Continuous	65	230	90	90
- Intermittent	90	260	120	120
Advantages	RT cure	Very good high	Low viscosity	Low viscosity
	Adjustable flexibility	temperature performance	Low cost	Thermal shock resistant
	Pot life	Pot life	Thermal shock resistance	Tough impact resistant
	Low toxicity	Lower viscosity	Pot life	Low colour
	Wide mixing ratio	alternative to Catalyst 14	Tough impact resistance	
	Low cost		Low colour	
Disadvantages	Softens at elevated	Elevated temperature cure	Longer cure at RT than	Pot life
	temperature		CATALYST 24 LV	
Other comments	Easiest epoxy curative to	CATALYST 17 may be		Has tendency to semi-
	use.	solid at RT (Crystallised)		thixotrope various epoxy
	Can mix with epoxy even	When warmed to 65°C, it		systems
	without sophisticated	will liquefy. Cool down to		
	weighing equipment	room temperature before		
		use.		

STANDARD CATALYSTS (cont)

CATALYST	27-1	28	30
Туре	Modified aromatic amine	Modified aromatic amine	Modified aliphatic amine
Viscosity	250 – 300 mPa.s	250 – 300 mPa.s	70 – 90 mPa.s
Colour	Brown	Brown	Slight amber
Density (g/cm³)	1,00 – 1,05	1,00 – 1,05	0,92 - 0,96
Amount of Catalyst used in relation to CATALYST 9 (in x CATALYST 9)	1,75	1,75	2,70
Pot life (100 g at 25°C)	2 h	2,5 – 3 h	60 min
Shelf life at RT	1 year in unopened	1 year in unopened	1 year in unopened
	containers	containers	containers
Cure schedule	4 h at 120°C	4 h at 120°C	24 h at RT or 4 h at 65°C
Service Temperature (°C)			
- Continuous	175	175	90
- Intermittent	200	200	120
Advantages	Chemical resistance Physical strength Pot life High temperature performance	Chemical resistance Physical strength Pot life High temperature performance	Non-blushing Resilient (more than CATALYST 9) Low viscosity RT cure Low colour
Disadvantages	Elevated temperature cure	Elevated temperature cure	
Other comments	Non-staining alternative for CATALYST 11; Cannot be used in combination with the following products: STYCAST 2057 * STYCAST 2651 MM STYCAST 2741 LV STYCAST 3050 STYCAST 2850FT BLUE ABLESTIK 45 LV	Non-staining alternative for CATALYST 11 Can be used with STYCAST 2057 STYCAST 2651 MM STYCAST 2741 LV STYCAST 3050 STYCAST 2850FT BLUE ABLESTIK 45 LV	Excellent epoxy curative if appearance is important

^{**}Do not use Cat 27-1 with Calcium Carbonate filled products, Stycast 2850FT Blue may also react due to the blue pigment, offer the customer Catalyst 28**

Cat 27-1 can be used with Stycast 2651-40-W-1 as it uses a different filler than 2651MM

STANDARD CATALYSTS (cont)

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