

# Product Selector Guide

Two Component Epoxy Systems for the Production of Moulds and Tools

**HUNTSMAN**

Enriching lives through innovation

Resin	Hardener	Mix ratio (pbw)	Colour	Density g/cm <sup>3</sup>	Pot life (min.)*	Castable layer thickness (mm)	Applications	Temperature resistance after respective cure cycle °C (ISO 75)					
								50	100	150	200	250	
<b>RenGel® Gelcoats</b>													
SW 10	HY 2404	100 : 10	white	1,5	20	-	Working moulds (ceramic), negatives, models, jigs	60-80	easily machinable, polishable, low odour				
	HY 5159	100 : 8		1,5	60	-							
SW 419-1	HV 2419	100 : 13	black	2,3	15 - 20	-	Metallforming tools, foundry patterns, general model making	60-70	high compressive strength, abrasion resistant				
SW 404	HY 2404	100 : 10	blue	1,8	15	-	Foundry patterns, copy-milling models, foaming moulds	80-100	abrasion resistant				
	HY 5159	100 : 8		1,8	50	-							
SW 18	HY 2404	100 : 20	green	1,3	10 - 15	-	Wet lay-up tools, vacuum forming tools	85-100	polishable, high chemical resistance				
	HY 5159	100 : 16		1,3	25	-							
SW 56	HY 2404	100 : 13	caramel	1,5	10 - 15	-	Pressure casting moulds (ceramic) wet lay-up tools	100-120	workable, polishable, chemical resistant				
	HY 5159	100 : 10		1,5	25 - 30	-							
XD 4615	HY 5159	100 : 15	black	1,3	25 - 30	-	Mould for composite tooling, vacuum forming tools	120-130	highly polishable, high chemical resistance				
SW 5200	HY 5211	100 : 20	black	1,6	18 hrs	-	Prepreg tools, high temperature tooling applications	high temperature	180-200				
	HY 5212	100 : 20	black	1,5	10 hrs	-							
	HY 5213	100 : 16	black	1,6	270	-							
<b>RenGel® Coupling Coat</b>													
P 99	HY 5159	100 : 11	grey	1,5	30	-	Coupling coat between gelcoat and backing	120	multipurpose coupling coat				
<b>RenCast® Casting Systems</b>													
CW 20	HY 49	100 : 5	blue	2	110	30	Foundry patterns, copy-milling models, metallforming tools, foaming moulds	65-70	mineral filled, abrasion resistant				
CW 2418-1	HY 5160	100 : 15	black	2,3	120	80	Metallforming tools, casting of dowel bushes, general model making, full & face casting, foundry patterns	50-65	metal filled, high compressive strength, cure: slow/medium/fast				
	HY 5161	100 : 15		2,3	60	20							
	HY 5162	100 : 15		2,3	30	10							
	HY 5118	100 : 20		2,2	80	40							
CW 2215	HY 5160	100 : 20	ivory	1,6	120	80	Suitable for a wide range of applications	50-65	easily machinable, colourable, cure: slow/medium/fast				
	HY 5161	100 : 20		1,6	45	20							
	HY 5162	100 : 20		1,6	25	10							
CW 5156-1	HY 5158	100 : 8	grey	1,6	80	80	Foam moulds, vacuum forming tools	130	chemical resistant, easily machinable				
CW 47	HY 33	100 : 15	grey	1,85	4.5 hrs	100	Prepreg tools, vacuum forming tools, injection moulds, high temperature tooling applications	castable up to 100mm, easily machinable	200-210				
<b>RenLam® / Araldite® Laminating Systems</b>													
CY 219	HY 5160	100 : 50	pale yellow	1,1	80	-	Laminates and backfilling with a variety of fillers	45-60	transparent, tack-free with adjustable reactivity, room temperature curing				
	HY 5161	100 : 50	pale yellow	1,1	40	-							
	HY5162	100 : 50	pale yellow	1,1	20	-							
M-1	HY 956	100 : 20	pale yellow	1,1	30	-	Laminates and backfilling with a variety of fillers	50	transparent, room temperature curing, good impregnation				
LY 113	HY 98	100 : 30	pale yellow	1,1	90 - 100	-	Low viscosity laminating system with good thermal properties	125	temperature resistant, excellent wetting out properties				
LY 5210	HY 5211	100 : 40	amber	1,1	24 hrs	-	Prepreg lay up tools, parts and structures, high temperature tooling applications	partial curing at room temperature, long pot life	180-210				
	HY 5212	100 : 40	amber	1,1	12 hrs	-							
	HY 5213	100 : 32	amber	1,1	180	-							
LY 8615	Aradur 8615	100 : 50	pale yellow	1,13	850 - 980	-	High temperature infusion system for composite tooling	high temperature, long pot life, low viscosity	210-220				
	XB 5173	100 : 38	pale yellow	1,14	300 - 400	-							
<b>RenLam® Laminating Pastes</b>													
LV 573-2	HY 2959	100 : 15	grey blue	1,1	45 - 60	20	Laminated shells and backing structures	50	up to 20mm layer thickness, hand applied				
LV 06	HY 06	100 : 15	grey blue	1,1	90	15	Laminated shells and backing structures	70	up to 15mm layer thickness, hand applied				
LV 10	HY 97 blue	100 : 20	grey blue	0,75	60	10	Light, stiff laminated shells and backing structures	125	light paste, hand applied				
<b>RenPaste® Modeling Pastes</b>													
SV 427-2	HV 427-1	100 : 100	brown	0,6	40	20	Models and patterns, general alteration or repair of models + patterns	50-55	room temperature curing, with other hardeners suitable for bonding RenShape® boards				
SV 36	HV 36	100 : 100	brown	0,5	60	40	Light models, patterns and repairs	50-55	no pin holes, light, easily machinable, hand applied, layer thickness 40 mm				

\*gelcoats: 250ml, laminating resins: 50ml, casting systems and pastes: 1l

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