

Ren Foundry Accessories

Ren-Weld™ 103 – An advanced epoxy adhesive for bonding Ren Shape 450 and 460 boards.

Ren-Weld 5169 – A high-performance polyurethane laminating adhesive color-matched to Ren Shape 5169 boards. Specially formulated to produce strong bondlines between boards for assembly of a machinable block.

RP 8512 R/H – A rapid-curing epoxy adhesive for bonding Ren Shape 450 and 460 boards. Components are easy to mix and apply and produce high-strength, tough joints.

RP 8553 R/H – A carvable paste for altering and repairing master patterns and patterns. Exhibits a 1:1 mix ratio by volume and cures in six hours at room temperature.

RP 8558 R/H – An aluminum-filled paste formulated for bonding and repair. After curing for six hours, the epoxy can be sanded, filed, machined and drilled.

Ren-Patch™ 5169 – An advanced repair paste designed to provide excellent adhesion to Ren Shape 5169 boards for alteration and repair. Color-matched to the red board. This system is packaged in convenient 50 ml dual-barrel cartridges for neat, easy mixing and dispensing. The material gels in 45 to 75 seconds and can be sanded after 15 minutes. It is also useful for repairs and alterations on metal patterns.

Ren-Patch 440 – Easy to handle and apply repair paste for use with Ren Shape 450 and 460 boards.

Typical Cured Properties of Ren Foundry Tooling Materials

Properties	Color	Hardness, Shore D	Density, lb./ft ³ (g/cm ³)	Ult. Compressive Strength, @ 77°F, psi	Ult. Flexural Strength, @ 77°F, psi	Coefficient of Thermal Expansion, (-22°F to 86°F), in./in./°F	Tg, by DMA, E", °F
Ren Shape Boards							
450	Lt. Brown	65	41 (0.66)	2,800	4,000	36 x 10 ⁻⁶	205
460	Lt. Brown	64	48 (0.77)	2,200	3,700	29.9 x 10 ⁻⁶	219
5169	Red	85	75 (1.2)	8,800	14,000*	40.8 x 10 ⁻⁶	206
Surface Coats							
RP 6411 R/H	Gray	65	79 (1.28)	--	--	--	--
RP 8024 R/H	White	90	89 (1.43)	14,500	10,000	28.6 x 10 ⁻⁶	149
Pastes/Backfills							
RP 8169 R/H	Lt. Blue	74	74 (1.19)	5,700	5,000	23 x 10 ⁻⁶	--
RP 8281 R/H	Lt. Blue	45	37 (0.6)	1,300	549	9.4 x 10 ⁻⁶	--
PUR Casting Systems							
Pro-Cast 20 R/H	Gray or Blue	85	108 (1.78)	7,400	4,900	25 x 10 ⁻⁶	190
RP 132 R/H	Gray	84	106 (1.71)	8,200	6,700	19.4 x 10 ⁻⁶	192
RP 8250 R/H	Gray	81	101 (1.62)	9,000	6,200	23.8 x 10 ⁻⁶	--
RP 6444 R/H	Amber	60	67 (1.08)	1,220	2,700	108.6 x 10 ⁻⁶	--
Epoxy Casting Systems							
RP 8209 R/H	Black	83	127 (2.05)	13,600	10,300	35 x 10 ⁻⁶	--
RP 8269 R/H	Gray	85	101 (1.62)	15,600	6,800	22 x 10 ⁻⁶	171

* @ 5% strain did not break

Typical Properties Chart Test Information
 Density, ASTM D-792
 Shore Hardness, ASTM D-2240
 Ultimate Compressive Strength, ASTM D-695

Ultimate Flexural Strength, ASTM D-790
 Glass Transition Temperature, ASTM D-4065
 Coefficient Of Thermal Expansion, ASTM D-3386

Packaging of Foundry Tooling Materials

Machinable Boards	Length	Width	Thickness
Ren Shape 450	60	16	2
	60	16	3
	60	16	4
	60	20	1, 2, 3, 4
Ren Shape 460	60	16	2
	60	16	3
	60	16	4
	60	20	1, 2, 3, 4
Ren Shape 5169	60	20	1, 2, 3, 4
	30	20	4
	30	24	5, 6

Ren Shape machinable boards are supplied either in boxes or on pallets. For further information about packaging, please call customer service at: 800-367-8793.

Surface Coats	Pints	Quarts	Gallons	5-Gallons	Drums
RP 6411 Resin RP 6411 Hardener					
RP 8024 Resin RP 8024 Hardener					
Pastes/Backfills					
RP 8169 Resin RP 8169 Hardener					
RP 8281 Resin RP 8281 Hardener					
PUR Casting Systems					
Pro-Cast 20 Resin Pro-Cast 20 Hardener					
RP 132 Resin RP 132 Hardener					
RP 8250 Resin RP 8250 Hardener					
RP 6444 Resin (Amber) TDT 178-88 Resin (Red)					
RP 6444 Hardener (Amber) TDT 178-87 Hardener (Black)					
Epoxy Casting Systems					
RP 8209 Resin RP 8209 Hardener					
RP 8269 Resin RP 8269 Hardener					