



TECHNICAL DATA SHEET REZ-CURE® PU-1914

DESCRIPTION

REZ-CURE® PU 1914 is a two-component, room temperature cure, polyurethane adhesive system. It is fast setting system and has a convenient 1:1 mix ratio by weight and volume. The cured system has excellent abrasion resistance and can be sanded within a few minutes. It is designed for non-structural repairs on EPDM, PP, PUR, RIM, RRIM, SMC, TPO, TPE, and fiberglass. This system has also displayed excellent bond strength to a variety of other substrates including galvanized, galvaneal, or galvalume metals in addition to concrete and wood.

TYPICAL WORKING PROPERTIES

	<u>PART - A</u>	<u>PART - B</u>	<u>MIXED</u>
Color	Beige	Black	Black
Viscosity @ 25°C	40,000	70,000	---
Weight per gallon, pounds	11.00	11.2	---
Filler Type	Non-Abrasive	Non-Abrasive	Non-Abrasive
Gel Time, seconds (8 gram mass @ 25°C)	---	---	30 to 60
Sanding Time, minutes (8 gram mass @ 25°C)	---	---	5 to 7
Paint Time, minutes	---	---	30 to 40
Shelf Life, Sealed containers	6 Months	6 Months	---

MIX RATIO

	<u>Parts By Weight</u>	<u>Parts By Volume</u>
PU 1914 Part A	1	1
PU 1914 Part B	1	1

Recommended Cure Schedule

1 day at 25° C (77° F)



TYPICAL CURED PHYSICAL PROPERTIES

HARDNESS DEVELOPMENT

<u>Time</u>	<u>Shore A</u>	<u>Shore D</u>
18 Hours @ 25°C	--	60 - 70

LAP SHEAR STRENGTH (psi) (Tested @ 25°C)

<u>Substrates</u>	<u>Sanded</u>	<u>Unsanded</u>
Rockwell 9466	781 (s)	---
Rockwell 9486	853 (s)	828 (s)
Epoxy Laminate	3,046	2,860
Graphite Epoxy Laminate	2,750	2,673
Nylon	550	250
PET-G	700 (s)	630 (s)
ABS	712	311
SMC	---	695
ABS/PVC	575 (s)	529 (s)
Clear PVC	797 (s)	501 (s)
Filled PVC	550 (s)	530 (s)
Polycarbonate	950 (s)	820 (s)
Phenolic Laminate	1,062 (s)	1,035 (s)
Concrete	1200	---

** (s) = Substrate Failure

	<u>Sand Blasted</u>	<u>MEK, Degreased</u>
Aluminum	2,047	1,685
Cold Rolled Steel	2,432	1,834
Stainless Steel	1,640	----

Al/Al acid etched

	<u>Lap Shear Strength, psi</u>	<u>T-Peel Strength, pli</u>
24 Hours @ 25°C	2,150	52.5
7 Days @ 25°C	2,780	41.3
7 Days @ - 40°C	3,750	---
7 Days @ 82°C	450	---

Tensile Strength	2100 psi
Tensile Elongation	200 %
Tear Resistance	400 pli
Cure Shrinkage	0.0014 in/in



STORAGE AND HANDLING

Store indoor in a warm (70°F to 80°F), dry place. Both these products are moisture sensitive and all containers must be kept sealed when not in use. Products should be blanketed with nitrogen or dry air after use and sealed.

These materials are intended for industrial use only and must be handled safely. An MSDS will be supplied with samples and upon request. Material may cause rash or dermatitis when exposed to skin for prolonged time. Eye protection and appropriate glove must be used at all times when handling these materials. If taken internally, consult physician immediately.

DISCLAIMER

The information in this brochure is based on data obtained in our research and is considered accurate. However, no warranty is expressed or implied.