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Translucent Skin Tin RTV R-1310 A/B Product Data Sheet

R-1310 A/B—10 A Shore Tin Base (Condensation Cure), translucent, two-component, room temperature curing (RTV) rubber. Its good physical strength and elongation properties, *trouble-free cure*, along with good library shelf life, make this the ideal rubber for making puppet skins and highly flexible props and parts. Good substitute over using Platinum RTV skin materials where inhibition is always a concern.

Available Sizes: Pint Kit (1 lb) & Qrt Kit (2 lb) Gal Kit (9 lb) & 5 Gal Kit (44 lbs) 55 Gallon Drum (495 lbs)

Product Features:

- User friendly and trouble free cure—*Unlike Platinum RTVs*
- Excellent physical properties and high tear resistance with flesh skin softness
- Low viscosity for ease of pouring
- **Fast Cure (3 Hour) Catalysts** Pourable R-1310 FC B & Brush-On R-1300TH SP B

Applications

1. Highly Flexible, Colorable Rubber Parts
2. Skin Membrane—Animatronic & Puppet skins

Accessories

- **Colorants:** Silicone Pigments and Flocking Fibers
- **Paint:** D-3430 SP Silicone Dispersion Coating
- **Softener:** F-100 Fluid

	R-1310 A/B	<i>Fast Cure</i> <u>Brush-On</u> Catalyst R-1300 TH SP B	Fast Cure <i>Pourable</i> Catalyst R-1310 FC B
Color	Translucent	Clear	Clear
Mix Ratio A to B: (By Weight)	Pourable 100/10	Brush-On 100/10	Fast Pourable 100/10
Mixed Viscosity	18,000	Thixotropic	18,000
Gel Time (min)	45-60	20	20
Cure Time (hr) @ 77F	16-24	3+	3+
Specific Gravity	1.08	1.08	1.08
Hardness A Shore	10	6	6
Tensile Strength (psi)	375	*	*
Elongation (%)	500	*	*
Tear Resistance (pli)	70	*	*

MIXING & CURING INSTRUCTIONS:

R-1310 A is processed by adding the curing agent B. **Part B should be shaken prior to use.** The addition of 10% catalyst (by weight) has a pot life of 45 minutes – 1 hour and overnight cure with normal catalyst. Since material is clear, a double mix—mixing in one container then transferring to another and re-mixing—is recommended to ensure a thorough mix. De-airing (degassing) material is always recommended. After the mold (or part) has been removed from the master, it should be left for 24 hours in order to develop its maximum mechanical strength.

Softening Agent

F-100 can be used to adjust skin hardness or to create a gel like silicone medium for movement. Add F-100 fluid to the silicone RTV rubber mix. The addition of 10-15% fluid will lower the hardness by 5-10 points.

Brush-On Fast Cure

R-1300th SP B is a clear, thixotropic, all-in-one, fast cure catalyst used for creating thin rubber skins. Use in place of the standard, overnight cure catalyst @ 10%. **Gel—20 Minutes Cure—3+ Hours**

Note: Hardness will slightly decrease and an increase in elongation will be noticed, but overall part or mold library shelf life is unaffected.

Pourable Fast Cure

R-1310 FC B is a clear, all-in-one, fast cure catalyst used to reduce cure time of RTV for poured, solid parts. Use in place of the standard, overnight cure catalyst @ 10%. **Gel—20 Minutes Cure—3+ Hours**

Note: Hardness will slightly decrease and an increase in elongation will be noticed, but overall part or mold library shelf life is unaffected

STORAGE LIFE:

A and B components must be stored in their original, unopened containers at temperatures between 60-90F. Shelf life of materials when kept in unopened, sealed containers, at the recommended storage conditions, is 6 months.

THE INFORMATION AND DATA CONTAINED HEREIN ARE BASED ON INFORMATION WE BELIEVE RELIABLE. EACH USER OF THE MATERIAL SHOULD THOROUGHLY TEST ANY APPLICATION AND INDEPENDENTLY CONCLUDE SATISFACTORY PERFORMANCE BEFORE COMMERCIALIZING. SUGGESTIONS OF USES SHOULD NOT BE TAKEN AS INDUCEMENTS TO INFRINGE ON ANY PARTICULAR PATENT.