SILPAK R-1310 A/B

Translucent Skin Tin RTV

R-1310 A/B—10 A Shore Tin Catalyst (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.

Features

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

Applications

- Highly flexible, colorable rubber parts
- Skin membrane – animatronic and puppet skins

Accessories

- **Colorants:** Silicone pigments and flocking fibers
- **Paint:** D-3430 SP Silicone Dispersion Coating
- **Softener:** F-100 Fluid

	R-1310 A/B	Fast Cure Brush-On Catalyst R-1300 TH SP B	Fast Cure Pourable Catalyst R-1310 FC B
Color	Translucent/Milky White	Clear	Clear
Mix Ratio, A to B (by weight)	**Pourable** 100/10	**Brush-On** 100/10	**Fast Pourable** 100/10
Mixed Viscosity	12,000	Thixotropic	18,000
Gel Time (min)	45-60	20	20
Cure Time (hr) @ 77°F	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)	85		

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

Mixing and Curing

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.

Storage and Shelf 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.