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Soft Skin

Soft Skin is a very soft, platinum-cured silicone initially designed for animatronics where small, precise movements of the robotics are required. This material is not designed for most animatronics applications. Please refer to other **S.E.T.** silicones for a wider range of materials.

A coating of talcum powder will alleviate tackiness on **Soft Skin**.

<u>Typical Properties</u>	
Color, Base	Translucent
Color, Activator	Translucent
Base Viscosity (cps)	14,000
Activator Viscosity (cps)	1,000
Working Time (Hours)	2.5
Cure Time (Hours)	16-18
Tensile Strength	125 psi
Elongation	900%
Specific Gravity	1.08
Shore 00 Hardness	
1 Day	16
7 Day	18
Modulus (psi)	
50%	9
100%	9
200%	11

Mixing Directions

Soft Skin is mixed 10 parts base to 1 part activator by weight. Deviations from this ratio will cause changes in the physical properties. Choose a container with a volume that is two to three times greater than that of the rubber. Weigh the components carefully and mix thoroughly. After the

activator is evenly mixed into the base, scrape the sides and bottom of the container to insure that there is no unmixed portion. Place the container in a vacuum chamber and deaerate at 28 to 29 inches of mercury vacuum until the mass of rubber rises and then collapses.

Cure Sensitivity

Soft Skin may have its cure inhibited at the interface between the mold and the master. Models that have come in contact with tin catalyzed rubbers may show cure inhibition at the face of the mold. This can usually be prevented by thoroughly cleaning the model with naphtha or methylene chloride, releasing and checking the area by brushing on a small amount of catalyzed **Soft Skin**. After twenty-four hours this film must be cured and non-sticky. In the event that the contamination still exists, the model should be cleaned again and a thin film of acrylic or nitrocellulose lacquer or base coat should be applied. This should serve as a barrier coat and allow a completely cured mold to be prepared. Other substrates such as sulfur containing clays, amines, or tin contaminated materials will cause surface inhibition and in all cases a test should be run as outlined above to determine compatibility.

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