



Brick in the Yard
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Skin Cast Silicone

Technical Data Sheet

Skin cast silicone is a special, super soft, translucent, low-cost, silicone gel formula for casting applications such as medical models, props, adult novelties, and padding. Skin cast mixes 1:1 by weight and has a very low viscosity as well as a fast demold time. Responds to TinThix silicone thickener for brushed on applications. May be pigmented with out silicone pigments and flocking colors. We recommend a combination of silicone pigment and flocking for best simulation of organic tissue. May be painted with PlatSil Gel-10. See our Gel-10 painting tutorial for more painting information.

Important! This is a very soft Gel! It is not intended for molding applications or skins that require high strength! For high tear strength, we recommend PlatSil Gel-10, Gel-OO, or Gel-25. Skin Cast can be used to fill areas of a cast (such as breasts) where Gel-10 or Gel-OO have been used as a skin. Working time at 70° F 6 - 8 Minutes. Demold Time 70° F ~1 Hour.

Skin Cast Features

- Cures to a very soft ~0010
- Low Durometer
- Fast Setting
- Minimal shrinkage
- Low Viscosity

Skin Cast Silicone is supplied in matched with Art Cast designed to be used in a 1:1 ratio by weight.

Typical Properties

	Base	Catalyst
Color	Translucent	Translucent
Viscosity	1800	1400
Pot Life (Pour Time)	5 - 10 Minutes	

After Cure (24 hours @ 25°C)

Durometer	70 - 75 Sponge Rubber
Linear Shrinkage, %	nil
Useful Temperature Range °C (F°)	-60 - 232 (-75 - 450)

Applications:

Hobby and art projects
 Rapid Prototyping
 Inventing

Silicone Print Pads
 Special Effects
 Rollers

Model Making
 Rotational Casting

MIXING

Because pigments can settle during storage, Skin Cast should be thoroughly stirred before mixing. Use separate tools for mixing the base and catalyst to avoid cross contamination. Accurate weighing is essential to obtain maximum physical properties from the cured silicone. Add the catalyst to the base and mix until the color is uniform. Low-shear mixing of the mixture is recommended. Use clean tools and scrape the bottom and sides of the container to assure a homogeneous mixture. Avoid stirring in an excessive amount of air.

DEGASSING

Air entrapped during mixing should be removed to prevent voids in the cured product. Deair the mixed material under a vacuum of 25 mm (29 inches) of mercury. The mixture will froth and, expand four times its volume, crest and recede to about the original level as the bubbles break. Degassing is usually complete about two minutes after frothing subsides.

CURING

Skin Cast will cure sufficiently in 16 hours at room temperature (72°F) to be handled. Skin Cast will reach 90% of ultimate cure in 24 hours at room temperature. For full cure an additional 1-2 days at room temperature is required.

STORAGE and HANDLING

Skin Cast will remain useful for six months when stored in the original unopened containers at temperatures below 80°F (27°C).

Accessories:

Tinthix

Flocking

Silicone Pigments

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