

SILPAK, Inc

470 E. BONITA AVE. POMONA, CA 91767
PH (909) 625-0056 WWW.SILPAK.COM FX (909) 625-0082

(Alginate)
SILGINATE
Product Data Sheet

Silginate is a powder derived from kelp and formulated with other proprietary ingredients to give a user-friendly, body safe, easy mix (1 to 1 by volume), temporary mold-making material. Plaster parts are usually cast in Silginate molds. It can be also used to custom shrink parts.

Available Sizes: 1 lb & 3 lb Bags , 20 lb Box , and 100 lb

Applications:

- 1) Quick Reproduction
- 2) Life Casting—Body Parts
- 3) Waste Molds
- 4) Part Size Reduction

Mix Instructions:

Mold Making—Weigh or measure appropriate amounts of Silginate and Water—**1 to 1 by Volume**—in separate containers. Water temperature should be between 75-85F. Add Silginate to the water while rapidly stirring and scraping the sides of container to create a uniform, smooth textured blend—like that of pancake batter. If blend is too thick add more water to adjust mix or add more Silginate if too watery. Mixing time of 40-60 seconds is recommended.

Shrinking Part—Change mix ratio to 20/80—20 parts Silginate to 80 parts water. This provides a watery mixture that flows yet is slightly pasty. Now, cast and pressurize to capture details. Allow piece to dry until desired size is achieved. Rotating piece and allowing air exposure to part's various surfaces will ensure a more uniform shrinkage.

	<u>Silginate</u>
Color:	Blue
Consistency:	Powder
Mix Ratio:	
By Volume:	50 / 50 (By Weight: 30 Parts Silginate to 70 Parts Water)
Mixed Viscosity:	Non sagging paste
Gel Time:	4.5 to 5 Minutes

Tips:

Variations of water temperature and percentage of water will affect mixture viscosity and cure times, i.e., warmer water will reduce work time while cooler water will extend it. If adhesion for multiple layers is required, a solution of sodium carbonate (baking soda) and water (1/2 teaspoon to 4 ounces of water) can be brushed on Silginate surface and additional layer applied. When applying to skin, spray or wet skin with water to lower surface tension, which improves surface quality from voids and bubbles. For face application, pull back all hair and grease up hairlines and facial hair with Vaseline or tearless baby shampoo. For a back-up or support mother mold, *Plaster Bandages* can be used to support Silginate mold for casting. If Silginate piece is to be used at a later time, wrapping it in a damp cloth or towel and sealing in a plastic bag or container will temporarily preserve it.

THE INFORMATION CONTAINED HEREIN IS BELIEVED TO BE RELIABLE, BUT UNKNOWN RISKS MAY BE PRESENT. SILPAK WARRANTS ONLY THAT THE MATERIALS SHALL BE OF MERCHANTABLE QUANTITY; THIS WARRANTY IS IN LIEU OF ALL OTHER WRITTEN OR UNWRITTEN EXPRESSED OR IMPLIED WARRANTIES AND SILPAK EXPRESSLY DISCLAIMS ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, OR FREEDOM FROM PATENT INFRINGEMENT. ACCORDINGLY, BUYER ASSUMES ALL RISKS WHATSOEVER AS TO THE USE OF THESE MATERIALS AND BUYERS EXCLUSIVE REMEDY AS TO ANY BREACH OF WARRANTY OR NEGLIGENCE CLAIM SHALL BE LIMITED TO THE PURCHASE PRICE OF THE MATERIALS. FAILURE TO STRICTLY ADHERE TO RECOMMENDED PROCEDURES SHALL RELIEVE SILPAK OF ALL LIABILITY WITH RESPECT TO THE MATERIALS OR THE USE THEREOF.