Encapso® K

Water Clear Encapsulation / Display Rubber

www.smooth-on.com

PRODUCT OVERVIEW

Encapso® K is a water clear encapsulation rubber that looks just like water and is ideal for a variety of encapsulation and display applications.

How Does Encapso® K Work? – Two clear liquids (Part A and Part B) are mixed together in equal amounts. The mixture is then poured around artificial flower stems or over an object. soft rubber over night depending on casting thickness and conditions (see reverse side of this technical bulletin). When cured, **Encapso® K** looks just like water and will last a long time.

Encapso® K Advantages:

- Non-Hazardous – No dangerous chemicals
- Soft, Clear Rubber Lasts A Long Time
- Easy To Use – Mix two liquids in equal amounts and pour
- UV Resistant
- Cures without generating any dangerous heat or fumes
- Minimal Bubble Entrapment
- Cures perfectly clear - Looks just like water
- Cured rubber can be removed from object

Applications for Encapso® K - This rubber is perfect for encapsulating artificial flower stems for creating lasting floral displays. You can also pour **Encapso® K** around just about any inanimate object to encapsulate for display. You can also create a variety of display props and novelty items. **Encapso® K** can be used to create water/pond effects for small scale model environments. Fully cured **Encapso® K** can also be crumbled to look like broken glass, diamonds or ice. Add color to **Encapso® K** with Silc Pig® or Ignite® liquid color pigments.

TECHNICAL OVERVIEW

Mix Ratio: 1A : 1B by weight or volume	
Mixed Viscosity, cps: 500	(ASTM D-2393)
Specific Gravity, g/cc: 0.97	(ASTM D-1475)
Specific Volume, cu. in./lb.: 28.6	(ASTM D-1475)
Pot Life: 60 minutes (73°F/23°C)	(ASTM D-2471)
Cure time: 24 hours (73°F/23°C)	
Color: Water Clear	
Shore A Hardness: 20	(ASTM D-2240)
Shrinkage, in./in.: 0.005	(ASTM D-2566)

* All values measured after 7 days at 73°F/23°C

PROCESSING RECOMMENDATIONS

PREPARATION...*Safety* - Use in a properly ventilated area ("room size" ventilation). Wear safety glasses, long sleeves and rubber gloves to minimize contamination risk. Wear vinyl gloves only. Latex gloves will inhibit the cure of the rubber. **Do not apply this product to the skin.** Encapso® K may not cure over objects containing sulfur. If compatibility is in question, a small scale test is recommended.

Store and use material at room temperature (73°F/23°C). These products have a limited shelf life and should be used as soon as possible.

For Encapsulating Artificial Floral Stems - Arrange / position bedding objects (stones, glass beads, etc.) and flowers in vase prior to mixing material.

MEASURING & MIXING...

Pre-Mix Part A - Shake container vigorously before using to re-disperse material that may have separated. If material is packaged in buckets, remove lid and pre-mix aggressively with a paint stick or mixing paddle.

Do not shake Part B container, as this may introduce excess air.

Dispense One Part A and One Part B by volume into mixing container (for example, 1 cup A + 1 cup B). Mix thoroughly for at least five minutes, making absolutely sure that you scrape the sides and bottom of your container several times. Material appears cloudy when first mixed, but will clear after a few minutes.

Safety First!

The Material Safety Data Sheet (MSDS) for this or any Smooth-On product should be read prior to use and is available upon request from Smooth-On. All Smooth-On products are safe to use if directions are read and followed carefully.

Keep Out of Reach of Children

BE CAREFUL - Use only with adequate ventilation. Contact with skin and eyes may cause irritation. Flush eyes with soap and water for 15 minutes and seek immediate medical attention. Remove from skin with waterless hand cleaner followed by soap and water. Children should not use this product without adult supervision.

IMPORTANT - The information contained in this bulletin is considered accurate. However, no warranty is expressed or implied regarding the accuracy of the data, the results to be obtained from the use thereof, or that any such use will not infringe upon a patent. User shall determine the suitability of the product for the intended application and assume all risk and liability whatsoever in connection therewith.

POURING, CURING & PERFORMANCE...

Pouring - Push back flower stems and pour mixture directly into the vase until desired level is reached. Do not let mixture touch side of vase. If using a deep vase or pouring at a difficult angle, pouring Encapso® K mixture using a funnel may be beneficial. Reposition flowers to a final arrangement and allow material to cure at least 24 hours at room temperature before handling. **Do Not Move Vase For At Least 24 Hours Until Rubber Has Cured.**

Curing - Let cure overnight at room temperature (72°F/23°C). Colder temperatures will slow or stop the curing process. Material castings thicker than 3 cubic inches (50 cubic centimeters) may take longer to cure.

Curing Conditions - Encapso K cures best in areas of high humidity (over 70% RH). If humidity is low (below 50% RH) material may take longer to cure. Also, thick sections will take longer to cure than thin sections. Thick sections in low humidity environments will take a long time to cure.

Large Projects – DO NOT USE Encapso K if more than 2 cubic feet/0.61m thick of material is required. It may take a very long time to cure. "Rubber Glass" (from Smooth-On) has a cure profile more suited for large encapsulation projects.

ENCAPSULATION, GLASS & ICE EFFECTS...

For Encapsulating Objects: object must be heavy enough not to float in liquid rubber. Place object in bottom of a container. Use a container that will allow object encapsulated in Encapso® K to be easily removed once rubber has cured. Center object in container, mix and pour Encapso® K around object and let cure.

Suspended Encapsulation: object must be heavy enough not to float in liquid rubber. Pour a small amount of Encapso® K in the bottom of your container. Allow material to cure. Position the object to be encapsulated on top of this first cured layer of rubber. Mix and pour a new amount of liquid Encapso® K over the object. Allow second pour to cure for 24 hours at room temperature. Encapso® K will bond to itself leaving the piece fully encased in a block of clear rubber.

Making Fake Ice, Diamonds or Broken Glass - Fully cured Encapso® K can be crumbled to simulate ice, diamonds or broken glass. Simply crumble cured rubber to desired size or effect.

Adding Color To Encapso® K - Add a small amount of Silc Pig® or Ignite® color pigment to Part A and mix thoroughly. Combine equal amount of Part B. Mix all components and pour.

Removing Encapso® K - Fully cured Encapso® K can be removed from flower stems or encapsulated objects. Simply crumble away from encapsulated item. If pouring Encapso® K over a glass object, apply a thin coating of petroleum jelly or Ease Release® 200 release agent before pouring rubber.

Call Us Anytime With Questions About Your Application.

Toll-free: **(800) 762-0744** Fax: **(610) 252-6200**

The new **www.smooth-on.com** is loaded with information about mold making, casting and more.

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