AeroMarine Products, Inc.
9020 Kenamar Drive #206
San Diego, CA 92121
(877) 342-8860
www.aeromarineproducts.com
info@aeromarineproducts.com

AeroMarine Products AM128 Brushable Silicone Moldmaking Rubber

Product Description

AeroMarine Products AM128 Brushable Silicone Moldmaking Rubber RTV is a two component, room temperature condensation cure silicone material. The cured rubber has excellent mechanical properties and good shelf-life stability. This material is an excellent choice for making molds of architectural details, statues, figurines and other applications where a pourable block mold is not feasible. This material is thixotropic, meaning that it can be applied to a vertical surface. AM128 Brushable's mix ratio is 10:1 by weight. You will need a gram scale to accurately weigh out this product.

*****YOU MUST SHAKE PINK CATALYST VIGOROUSLY FOR 90 SECONDS BEFORE USING!*****

THE BRUSHABLE SILICONE WILL NOT CURE IF YOU DON'T!

Key Features

- High tear strength
- Low viscosity
- Picks up fine detail
- Excellent dimensional stability

Main Applications

- Molds for large and small statues
- Molds for polyester, polyurethane and epoxy resin castings
- Molds for technical articles and prototypes
- Molds for furniture and picture frame replication

Typical Properties

Uncured properties	**"A" component**	**"B" component**
Appearance	White	Pink
Viscosity, cps	15,000	200
Mix Ratio	10:1 by weight	
Catalyzed properties(10% cat Purple)		
Specific gravity	1.25	
Pot life	~30 minutes	
Tack-free time	6-8 hours	
Demold time	16-24 hours	
Typical cured properties (3 days @ 25C)		
Durometer	28	
Tensile Strength, psi	>400	
Elongation, %	>500	
Tear B, pli	~110	
Linear shrinkage	0.006 in/in	
Useful Temperature Range	-50F to 450F	

AM128 Brushable Silicone Moldmaking Rubber IS NOT for use in ovens!

Cure Characteristics

The curing process begins as soon as the catalyst is mixed with the base. Under normal "room" temperature (22C/74F) and humidity (50% RH) conditions, the material will cure as described in the data above. Any large change in temperature (+/-5C) or humidity (>60-70%) may alter the cure profile of the material.

Shelf life: When stored in the original containers, in a cool, dry environment, out of direct sunlight, the shelf life of AM128 Brushable Silicone Moldmaking Rubber is six months.

Do NOT use AM128 Brushable Silicone Rubber with any sulfur-based clay or with latex gloves!

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Measuring and Mixing

Shake the catalyst very vigorously for 60 seconds before weighing it. Weigh parts A and B accurately. Once you have correctly measured both parts, mix parts A and B together with a plastic or wooden stirring utensil. Take care to scrape the sides and bottom of the mixing container. Keep your stirring utensil on the bottom of the container to reduce the amount of air being mixed into the silicone. Mix for several minutes, scraping the sides and bottom frequently, until the silicone is one uniform color with no streaks.

Application

Brush a small amount of mixed silicone onto the part for a very thin "detail coat". This will capture all the fine detail of your part. Once the detail coat cures, apply a thicker (about 1/8") coat of silicone onto your part. When the silicone has cured, you can pull the mold off your part like a glove.

Brushable silicone molds usually need a mother mold, a hard outer shell that holds the brushable mold in place while you pour your casting resin into your mold. Mother molds can be made from fiberglass, plaster or specially formulated urethanes.

Silicone RTV mold making rubber may soak into a porous surface like wood or plaster. To prevent sticking, first seal the part with a sealant appropriate to the material.

Mold Release

Generally, silicone RTV mold making rubber does not stick to anything, and nothing will stick to it. *The exception is that it will stick to itself, other silicones, silica, and glass.* Mold release will prolong the life of your mold by reducing the wear on the mold by making it easier to remove your cast piece.

For detailed instructions and videos on mold making, please visit our website, www.aeromarineproducts.com

Storing Your Cured Silicone Mold (Storage longer than 1 week)

First, apply mold release to your cured mold. Second, pour your casting material into the prepared mold. Or, you can insert a previously cast cured piece into the prepared mold. If your mold has a mother mold, place the mold and piece into the mother mold. Third, put your mold (if a smaller mold) with the piece in it into a doubled "Ziploc" type bag with all the air pressed out of the bags. Fourth, seal the bags tightly closed using either a plastic bag sealer or over-tape them with duct tape. For larger molds, use very heavy duty doubled garbage bags, remove all the air and seal tightly either with a plastic bag sealer or over-tape with duct tape. Finally, put your sealed, bagged mold into a plastic storage container with a lid, close the lid and store on a flat shelf/surface (NOT the floor or window) at continuous 70F out of direct sunlight.

Cleaning Your Silicone Mold

Wash your cured silicone mold with warm/hot water and mild liquid dish soap. Pat dry thoroughly and then let the mold air-dry completely. Never use any type of abrasive soap, cleaner or pad to clean your silicone mold!

We also sell accessory products for silicones:

- Accelerators to speed cure
- Extra catalyst
- Thinner to lower the viscosity of silicone RTV
- Thixotropic catalyst for brushing onto vertical surfaces
- Food grade silicones

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