55 Hilton Street, Easton PA 18042
(269) 488-4000
www.alumilite.com

TECHNICAL DATA SHEET

Amazing Mold Putty

Amazing Mold Putty is a premium two-part silicone putty designed for creating custom molds with precision and ease. With a simple 1:1 mix ratio by volume, it eliminates guesswork, making it perfect for beginners and professionals alike. Its fast 20-minute cure time ensures you can quickly move from molding to casting without delays.

This highly versatile mold putty captures intricate details, making it ideal for resin casting, soap making, wax molding, clay impressions, and even food-safe applications. The cured molds are non-toxic and oven-safe up to 395°F (200°C), allowing for endless creative possibilities, from edible treats to durable craft projects.

PRODUCT SPECIFICATIONS	
Mix Ratio	1:1 by Volume
Mixed Viscosity	Putty
Working Time	3.0 minutes
Demold Time	15-20 minutes
Hardness	25-A
Full Cure Time	7 days
Tensile Strength	300psi
Tear Resistance	35 pli
Elongation Strength	626%
Shelf Life	1 year
Color	Yellow

BEFORE USE: Thoroughly read Safety Data Sheets, product labels and the “SAFETY” section in this Technical Data Sheet.

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IMPORTANT: PLEASE NOTE

- **Food Safety Compliance** – Amazing Mold Putty complies with **FDA 21 CFR 177.2600** and is safe for food contact. Molds intended for food use should be used exclusively for food and not for any other casting applications.
- **Mold Release & Material Compatibility** – Mold release is required when pouring silicone against silicone to prevent bonding, especially for two-piece molds.
    - Recommended mold release options: Alumilite's UMR in combination with Rubber Mold Release or a thin layer of Vaseline.
    - Avoid contact with porous materials (fabric, clothing, carpet, and non-sealed surfaces) as the silicone will bond permanently.
    - Ensure the master is securely fastened to the mold base to prevent floating during the molding process.
- **Surface Finish Considerations** – The surface of the master must have a high-gloss finish to achieve a clear and glossy casting appearance.
    - A matte master surface will result in a matte finish on the final casting.
- **Platinum Silicone Inhibition** – Amazing Mold Putty, like all platinum-based silicones, is susceptible to inhibition when in contact with certain materials. Inhibited areas will fail to cure, remaining wet and never hardening, while unaffected areas will cure normally.
- **Common materials that cause inhibition:**
    - Tin or amine-cured resins
    - Vinyl-based materials (duct tape, PVC, etc.)
    - Sulfur-based clays
    - Cyanoacrylates (super glue)
    - Latex, neoprene, Buna N, and natural rubbers (e.g., rubber stamps)
- **Testing for** Compatibility – If unsure, conduct a small test before molding. Mix a small amount of Amazing Mold Putty and press it onto the material in question. If inhibition occurs, the detail will smear, and the putty will not harden on the surface.

BEFORE YOU BEGIN

Work Environment: The ideal working temperature is around 65-75°F in a clean, dry, dust-free environment.

Coverage: Take one side of the putty and pretend to cover half of your original up with the thickness you desire in your mold. Once you have half of the master completely covered (don't need to actually press it on … just hold or lay over the top to get an approximate volume of putty), roll the putty into a ball and measure out an equal amount of the other side of the putty.

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MIXING & POURING

When measuring for use, stick with the recommended ratios and blend just what you think you'll need. Once mixed, leftover mixed material can't be saved. Depending upon the ambient conditions (temperature & humidity) – you'll have about 15-20 minutes.

Step 1: The mix ratio of Amazing Mold Putty is 1:1 by volume or weight. Measure side A and side B, then knead the two thoroughly in less than a minute. Press while rolling to eliminate all of the creases.

Step 2: After the materials have been combined, roll the mixed putty into a ball and press while rolling to eliminate all of the creases.

Step 3: Starting from the highest point, lay the mixed putty ball on the master and roll the ball around the master. Rolling the putty around the master will roll the putty into the detail of your master rather than simply pressing the master into the putty in which the detail may drag or smear. Continue rolling the putty around the master until you have achieved the desired depth of your mold.

Step 4: Amazing Mold Putty as well as all other platinum base silicones are susceptible to Inhibition. Inhibition is when the material comes in contact with certain materials and fails to cure (remains wet … never hardens) whereas the rest of the material not in contact with the certain materials will cure absolutely fine. Materials consisting of or that are known to inhibit platinum base silicones are: tin or amine cured resins, vinyl (duct tape, pvc, etc), sulphur (clays), cyanoacrylates (super glue), latex, neoprene, Buna N, and natural rubbers (rubber stamps). Whenever you are in question and are not 100% sure the material you are pouring is compatible with the Plat series, it is recommended to test in a small area prior to making your entire mold. Simply mix up a small amount of Amazing Mold Putty and press it over the area/substrate in question to make sure it cures completely. If the Amazing Mold Putty inhibits, the detail will smear and the putty will not harden on the surface of the mold in those areas.

CLEAN UP & DISPOSAL

Mold life expectancy is a variable of many different factors including but not limited to the type of resin being used in the mold, the length of time the resin is in the mold, the exotherm of the resin, cycle times, the design of the part, the intricacies of the detail, the force needed to demold, etc. Even with all of these factors, there are some things you can do to get the most life out of your molds. In no order, here are some popular ways to extend the life of your molds:

- Use a silicone-safe mold release
- Avoid leaving castings in the molds any longer than needed.
- Allow molds time to cool from peak resin exotherms before pouring the next part.
- Use Silicone Oil to condition molds whenever you stop production for a day or two as well as condition molds with Silicone Oil before storing for periods of time.

- Integrate a bake-out process of 400-degrees for 2-hours and allow to cool back down before running more parts every 25% of the expected mold life (this process will draw silicone oil back to the surface of your mold rejuvenating what has been lost or depleted from the casting process).

Tools can be cleaned with Isopropyl Alcohol 99% or a residue-free cleaner. Do not use soap and water. Dispose of product and container according to Federal, State and local regulations. Store any remaining product in the original bottles, tightly sealed and locked up in a cool, dry environment.

SAFETY

Safety: Before use, thoroughly read Safety Data Sheets and product labels. Follow safety precautions and directions.

- Wear gloves
- Safety glasses
- Protect clothing with a work smock or other outer garment
- For cleaning surfaces, containers – use Acetone, rubbing alcohol or nail polish remover
- When stored separately, epoxy & hardener have long shelf lives – store in a cool dry area in tightly sealed containers

Part A: Keep out of reach of children. Wear impervious gloves, such as butyl rubber or nitrile rubber. Wash skin thoroughly with soap and water after handling. Take off contaminated clothing and wash it before reuse. If skin irritation occurs, get medical help. Wear eye protection, such as chemical safety glasses/googles. If in eyes, rinse cautiously with water for several minutes, removing contact lenses if present and easy to do. If eye irritation persists, get medical help.

Part B: Keep out of reach of children. Do not eat, drink, or smoke when using this product. If swallowed, rinse mouth and get medical help. Use with adequate general or local exhaust ventilation to minimize exposure levels. If needed, a NIOSH-approved respirator with organic vapor cartridge may be used. Wear impervious gloves, such as butyl rubber or nitrile rubber. Wash skin thoroughly with soap and water after handling. Wear eye protection, such as chemical safety glasses/googles. If in eyes, immediately rinse with water for several minutes, removing contact lenses if present and easy to do. If eye irritation persists, get medical help.

WARNING: THE CURE REACTION IS EXOTHERMIC. Do not apply in thicknesses greater than the recommended maximum application thickness for the product.

DISCLAIMER: The information contained herein is considered accurate; however, Alumilite makes no warranty regarding its accuracy. The user must determine the suitability of the product for the intended use and accepts all risk and liability associated with that use.