



Product Information

www.miller-stephenson.com

ReleaSys™ 9700 Semi-Permanent Mold Release Agent

Description:

ReleaSys™ 9700 is a solvent-based, semi-permanent mold release agent designed to provide superior durability and ease of release across a broad range of moldable substrates. ReleaSys™ 9700 uses a proprietary polysiloxane copolymer to generate a hard, glass-like coating yielding multiple releases from a single application. Properly applied, our product develops a durable, thin-film on the mold surface with no build-up. ReleaSys™ 9700 will not interfere with post-production finishing operation. Benefits of this product include:

- Exceptional durability and surface adhesion
- Ideal for complex molds
- Fast evaporation and Low-Temp cure time
- Clean, Non-oily, Non-migrating

Release Agent Applications:

ReleaSys™ 9700 is formulated to provide unmatched utility in compression, injection and transfer molding with the following materials:

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| • Organic Polymer | • Thermoplastics |
| • Thermosetting resins | • Elastomers |
| • Fluoroelastomers | • EPDM |
| • Urethanes | • Epoxy |
| • Neoprene | • Melamine |

Recommended Application Procedure:

1. Clean mold surface thoroughly. Mechanical cleaning such as bead media blasting, followed by chemical cleaning, provides the best surface for application. Removal of all previous mold release agent and contamination is critical.
2. ReleaSys™ 9700 can be applied by any spray equipment that can produce fine atomization and deposit a uniform, thin film. Apply light coats, approximately 8-10 inches from the surface. Surface wiping can be done as well, no additional polishing is required.
3. Allow ReleaSys™ 9700 to dry completely, then cure for approximately 20-25 minutes at normal operating temperatures (minimum 80 °C). Multiple light coats can be applied, but is not usually necessary.

Note: Heating to >100°C will greatly enhance durability, abrasion resistance, and surface lubricity. Cure time is greatly reduced as well.

4. Overapplication can result in lower release efficiency and sticking. General molding requires no more than two coats to achieve optimal performance. If overapplication is detected, lightly buff the surface with a microfiber cloth to remove unadhered material.

Reapplication:

1. When release becomes hesitant, immediately reapply one coat of ReleaSys™ 9700 in the same manner as described previously. Spot touch-ups can also be done on known high wear or geometrically strained areas. Light buffing can be done prior to reapplication to clear the surface of contaminates.

Physical Properties:

Primary Polymer:.....Reactive Polysiloxane
Appearance:.....Clear
Odor:.....Slight
Specific Gravity:.....0.79 g/mL @ 25°C
Flash Point.....20.8 °F

Storage and Handling:

ReleaSys™ 9700 should be stored in a well-ventilated area which is cool and dry. Do not expose to freezing temperatures. Prior to use, container should be lightly agitated.

ReleaSys™ 9700 should not be used at temperatures above 250 °C or near open flames. Chemical breakdown will occur which will result in the generation of toxic fumes. When spraying, avoid inhalation of mist and exposure to skin. Always wash hands after handling.

Shelf-Life

ReleaSys™ 9700 has a shelf life of 12 months from the date of shipment.

ReleaSys™ Product Line:

Miller-Stephenson's offers a selection of high performance, semi-permanent release systems to meet your mold process needs. All variants of the ReleaSys™ Series will deliver higher productivity, lower rejection rates, and higher quality products.

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