



Product Information

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ReleaSys™ 9800 Semi-Permanent Mold Release Agent

Description:

ReleaSys™ 9800 is a high-performance, high cross-linking water-based, semi-permanent mold release system. This formulation forms our most robust and durable coating, offering unmatched adhesion to all molding surfaces. This formulation excels at releasing parts from complex, intricate mold geometries. ReleaSys 9900 is ideal for difficult to release from or non-standard mold surfaces such as silicone, urethane, and rubber. Due to its excellent film forming capability it acts as an excellent mold sealer and surface protectant, extending the service life of lower durometer molds. Properly applied, our product develops a long lasting thin-film on the mold surface with minimal mold build-up and absolutely no transfer. ReleaSys™ 9800 will not interfere with post-production finishing operation. Benefits of this product include:

- Ideal for highly-polished, complex molds
- Our most durable coating and highest adhesion
- Superior film forming ability
- Can provide protection to mold surfaces such as: silicone, urethane, and rubber
- Clean, Non-oily, Non-migrating
- Improves quality and consistency of molded parts
- Minimizes mold buildup and fouling

Release Agent Applications:

ReleaSys™ 9800 is formulated to provide unmatched utility in compression, injection and transfer molding with the following materials:

- Organic Polymer
- Thermo-Resins
- Fluoroelastomers
- Acrylics
- Urethanes
- Thermoplastics
- Elastomers
- EPDM
- Epoxy

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 is critical.
2. ReleaSys™ 9800 can be applied by any spray equipment that can produce fine atomization and deposit a uniform, thin film. Apply lightly to a warmed mold approximately 6-8 inches from the surface. Application of light coats is critical. If you experience any buildup, buff the surface and apply one follow-up light coat.

3. Allow ReleaSys™ 9800 to cure for approximately 1-2 minutes at normal operating temperatures (or perform a single heat cycle). Multiple light coats can be applied, however this is not normally necessary.

Reapplication:

1. When release becomes hesitant, immediately reapply one coat of ReleaSys™ 9800 in the same manner as described previously. Spot touch-ups can also be done on known high wear or geometrically strained areas.

Physical Properties:

Primary Polymer:.....Crosslinking Polysiloxane
Appearance:.....White Emulsion
Odor:.....None
Specific Gravity:.....1.0 g/mL @ 25°C
Flash Point:.....None

Storage and Handling:

ReleaSys™ 9800 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; avoid high shear/high rpm mixing.

ReleaSys™ 9800 should not be used at temperatures above 260 °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™ 9800 has a shelf life of 12 months from the date of shipment.

ReleaSys™ Product Line:

Miller-Stephenson offers a selection of high performance water-based, 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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For further technical information call 800.992.2424 or 203.743.4447
For product sales: CT 800.442.3424, CA 800.771.8161, IL 800.447.4866, Canada 800.307.2199
www.miller-stephenson.com

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