miller-stephenson

Product Information

www.miller-stephenson.com

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. ReleaSys™ 9800 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. It can be topcoated with any ReleaSys product, ideally ReleaSys™ ECO4 or ReleaSys™ 7505N. 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 when zero transfer/air cure only is required
- 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

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 10-12 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 dry completely and then cure for approximately 1-2 minutes at normal operating temperatures. 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.

Safety data sheet (SDS) is available upon request.

Shelf-Life
ReleaSys™ 9800 has a shelf life of 12 months from the date of shipment.

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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
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