



Product Information

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ReleaSys™ 8800 Semi-Permanent Mold Release Agent

Description:

ReleaSys™ 8800 is a high performance water-based, semi-permanent mold release system developed to yield unmatched durability and surface slip. Miller-Stephenson's next generation crosslinking resin yields a superior coating which provides numerous releases without reapplication and zero transfer to the molded part. Given the low surface energy of this coating it excels at releasing parts from complex, intricate mold geometries. Properly applied, our product develops a long lasting thin film on the mold surface with zero mold build-up. ReleaSys™ 8800 will not interfere with post-production finishing operation. Benefits of this product include:

- Superior release agent durability
- Ideal for high complexity molds
- Clean, Non-oily, Non-migrating
- Improves quality and consistency of molded parts
- Eliminates mold build-up and fouling

Release Agent Applications:

ReleaSys™ 8800 is formulated to provide unmatched utility in compression, injection and transfer molding with the following materials

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

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™ 8800 can be applied by wiping or by any spray equipment that can produce fine atomization and deposit a uniform, thin film. Apply lightly to a warmed mold approximately 8-12 inches from the surface.

Note: Application of light coats is critical. If you experience any buildup, buff the surface and apply one follow-up light coat.

3. Initial Application Cure Method: Cure times vary with application thickness and temperature. The curing process is dramatically accelerated with the application of any heating above 50 °C. Temperatures below 50°C are non-ideal.
 - a. Cure times at 50 - 70 °C require approximately 25 - 35 minutes
 - b. Cure times at 75 - 100 °C approximately 20 - 25 minutes
 - c. Cure time above 100 °C are approximately 15 - 25 minutes

4. The initial cure is critical, failure to properly cure the coating will result in dramatically reduce coating durability and performance. It is recommended to perform two coats on start-up after cleaning to ensure complete coverage.
5. Multiple light coats can be applied however this is not normally necessary. If multiple coats are applied, allow 15 minutes between coats.

Reapplication:

1. When release becomes hesitant, immediately reapply one coat of ReleaSys™ 8800 in the same manner as described previously. Cure time is only 1-2 minutes when applied to a heated mold. 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™ 8800 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™ 8800 should not be used at temperatures above 550 °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™ 8800 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.

Safety Data Sheet (SDS) is available upon request.

LIMITATION OF LIABILITY AND REMEDIES: Manufacturer warrants that, at the time of shipment by the Manufacturer, this product is free from defect in material and manufacture. If the product is proved to be defective, the exclusive remedy, at Manufacturer's option, shall be refund of the purchase price or replacement of the defective product, provided written notice of the defect is given no later than one year after the date of shipment by the Manufacturer. Manufacturer shall not otherwise be liable for loss or damages whether direct, indirect, incidental or consequential, regardless of the legal theory asserted, including negligence and strict liability. **Manufacturer expressly disclaims all implied warranties, including the implied warranty of merchantability and the implied warranty of fitness for a particular purpose. There are no warranties which extend beyond the description on the face hereof.**

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