



Product Information

www.miller-stephenson.com

ReleaSys™ 8200 / 8205 Semi-Permanent Mold Release Agent

Description:

ReleaSys™ 8200 is a water-based, semi-permanent mold release agent designed to provide reliable, consistent release across a broad range of moldable substrates. ReleaSys™ 8205 is a higher concentration of the active ingredient. Properly applied, our product develops a durable, thin-film on the mold surface with minimal mold build-up. ReleaSys™ 8200 will not interfere with post-production finishing operation. Benefits of this product include:

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

Release Agent Applications:

ReleaSys™ 8200 is formulated to provide unmatched utility and economy in compression and transfer molding, particularly with Rubber to Metal bonding. ReleaSys™ 8200 is compatible with the following materials

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|----------------------------|--------------------------------|
| • Plastics | • Elastomers |
| • Fluoroelastomers | • Fluorosilicones |
| • Acrylics | • Epoxy |
| • Nitrile | • SBR |
| • Chlorinated Polyethylene | • Natural and Synthetic Rubber |

Recommended Application Procedure:

1. Clean mold surface thoroughly. Mechanical cleaning such as plastic 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™ 8200 can be applied by any spray equipment that can produce fine atomization or via cloth application. Apply lightly to a hot mold approximately 8-10 inches from the surface.
3. **Heated Mold:** Allow ReleaSys™ 8200 to cure for approximately 3-5 minutes at normal operating temperatures (minimum 132 °C). Multiple light coats can be applied, however this is not normally necessary

4. **Unheated Mold Surface:** Apply a light coat either by spray or microfiber cloth. Allow to dry completely before use (typically 30-40 minutes). The coating is now ready for use. Heat cycling the mold will help increase the coating durability and final performance.
5. If overapplication is detected, light buff the surface with a microfiber cloth to remove excess material.

Reapplication:

1. When release becomes hesitant, immediately reapply one coat of ReleaSys™ 8200 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:.....Fluoropolymer
Appearance:.....Light Yellow Emulsion
Odor:.....None
Specific Gravity:.....1.0 g/mL @ 25°C
Flash Point:.....None

Storage and Handling:

ReleaSys™ 8200 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™ 8200 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™ 8200 has a shelf life of 6 months from the date of shipment.

ReleaSys™ Product Line:

Miller-Stephenson's 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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