



Product Information

www.miller-stephenson.com

ReleaSys™ 8220 Semi-Permanent Mold Release Agent

Description:

ReleaSys™ 8220 is a water-based, PTFE fortified, semi-permanent mold release agent designed to provide reliable, consistent release across a broad range of moldable substrates. ReleaSys™ 8220 has been optimized for dip and flooding application and is an excellent alternative to the MS-143 series, specifically the MS-143XD. This coating is self-leveling and forms ultra-durable films with only air drying being required. ReleaSys™ 8220 generates an ultra-thin, translucent film on mold surfaces which yields excellent release without messy transfer or effective post-molding operations like painting, bonding or gluing. Benefits of this product include:

- Exceptional release, residue free
- 100% Silicone, Wax and Oil-Free
- Ultra thin-film PTFE resin coating
- Ideal dip and flooding application
- Excellent alternative to MS-143TE and 143XD
- Compatible with all substrates and mold types

Release Agent Applications:

ReleaSys™ 8220 is formulated to provide unmatched utility and economy with dipping and flooding molding applications, particularly with Rubber to Metal bonding. ReleaSys™ 8220 is compatible with the following materials

- | | |
|----------------------------|--------------------------------|
| • 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. Dip surface or mold to be coated into ReleaSys™ 8220 and retract slowly.
3. Allow the coated surface to dry completely prior to use. This can take up to 30-45 minutes at room temperature. Drying can be accelerated with the application of heat.
4. The surface or mold can be dipped repeatedly to build film thickness. However make sure the previous coating is completely dry before re-dipping or coating.
5. Overapplication can result in tacky, poor releasing coatings. Application of thin, light coatings are critical. If overapplication is detected clean the mold thoroughly and correct application intensity. If problems persist, contact Miller-Stephenson Technical Service for corrective action.

Reapplication:

1. When release becomes hesitant, immediately reapply one coat of ReleaSys™ 8220 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 Blue Emulsion
Odor:.....None
Specific Gravity:.....1.0 g/mL @ 25°C
Flash Point:.....None

Storage and Handling:

ReleaSys™ 8220 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™ 8220 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™ 8220 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.

Safety Data Sheets (SDS) are 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.**

1685-20

For further technical information call 800.992.2424 or 203.743.4447

For product sales: CT 800.442.3424, CA 800.771.8161

www.miller-stephenson.com

Miller-Stephenson Logo and ReleaSys™ are trademarks of Miller-Stephenson Chemical Company Inc