

ReleaSys™ 7500 / ReleaSys™ 75 Paintable Release Agent

Description:

Miller-Stephenson has developed a high-performance paintable release agent specifically designed for release of complex, challenging mold designs. Our product minimizes/eliminates "fish eyes", provides high surface quality, consistent color pigmentation, and accurate replication of mold patterns. ReleaSys™ 7500 is extremely heat stable and can be used in high temperature applications up to 400°C / 752 °F. Most importantly, ReleaSys™ 7500 achieves all of this in a highly efficient and cost-effective system. Benefits Include:

- Extended service life of flexible molds
- Ideal for complex molds
- Ultra-high temperature stability
- Seals microporosity and freshly repaired molds
- Elimination of "fish eyes" and post-molding cleaning
- Optimal pigment transfer and color appearance
- Ideal for composite, epoxy, and FRP substrates
- Highly effective for Crumb-Rubber Applications

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 and contamination is critical.
2. ReleaSys™ 7500 can be applied by any spray equipment that can produce fine atomization and deposit a uniform, thin film. Apply light coats, approximately 8-10 inches from the surface. Surface wiping can be done as well, no additional polishing is required.
3. ReleaSys™ 7500 is a concentrated product. It can be used as is for release of complex molds or diluted to a final working concentration. Dilution is ideally performed with DI water.

Note: When diluting, add DI water to the ReleaSys™ 7500 and not the inverse. Emulsion instability and product performance may be affected if this done incorrectly.

4. Allow ReleaSys™ 7500 to dry completely. Multiple light coats can be applied, and in some cases will increase durability and protection. Typically, 1-2 coats are sufficient.

5. Overapplication should be avoided. Evaluation should be performed to find the ideal application volume as well as dilution (if performed) for your given release requirements.

Reapplication:

1. When release becomes hesitant, immediately clean mold and reapply one coat of ReleaSys™ 7500 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	Proprietary Polymer
Appearance	White Emulsion
Odor	None
Specific Gravity	1.00 g/mL @ 25°C
Flash Point	None

Storage and Handling:

ReleaSys™ 7500 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.

ReleaSys™ 7500 should not be used at temperatures above 400 °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™ 7500 has a shelf life of 12 months from the date of shipment. ReleaSys™ 75 (aerosol) has a shelf life of 6 months from date of shipment.

ReleaSys™ Product Line:

Miller-Stephenson offers a selection of high performance, 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.

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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