



Product Information

www.miller-stephenson.com

ReleaSys™ 82 Semi-Permanent Mold Release Agent

Description:

ReleaSys™ 82 is an aerosolized water-based, semi-permanent mold release agent designed to provide reliable, consistent release across a broad range of moldable substrates. Properly applied, our product develops a durable, thin-film on the mold surface with minimal mold build-up. ReleaSys™ 82 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™ 82 is formulated to provide unmatched utility and economy in compression and transfer molding, particularly with Rubber to Metal bonding. ReleaSys™ 82 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. Shake can lightly and hold approximately 6-8 inches away from the heated mold surface. Apply a light coat or release agent. NOTE: ReleaSys™ 82 must be applied to molds at temperatures greater than 212 °F / 100 °C.
3. Allow ReleaSys™ 82 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.

Reapplication:

When release becomes hesitant, immediately reapply one coat of ReleaSys™ 82 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™ 82 should be stored in a well ventilated area which is cool and dry. Do not expose to freezing temperatures. Prior to use, can should be lightly agitated.

ReleaSys™ 82 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™ 82 has a shelf-life of 6 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.

ReleaSys™ Series	Slip	Durability	Releases per Application
85	●●●●	●●●●	●●●●
88	●●●●●	●●●●●	●●●●●
89	●●●●●	●●●●●	●●●●●
82	●●	●●●●	●●●●

1599-11K

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

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