

ReleaSys™ MS Mold Sealer

Description:

ReleaSys™ MS is a solvent-based, mold sealer designed to provide superior durability and high slip across a broad range of moldable substrates. Our high-performance mold sealer is designed specifically to seal microporosity on new, green molds and also freshly cleaned in-use molds. Upon curing, a robust, durable film is left on the mold surface which can be mold on direct directly or top coat with ReleaSys™ semi-permanent mold release agents.

- Exceptional durability and surface adhesion
- Ideal for complex molds
- Seals microporosity and freshly repaired molds
- Ideal for composite, epoxy, and FRP substrates
- Improves quality and consistency of molded parts
- Fast evaporation and cure time

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™ MS 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. Allow ReleaSys™ MS to dry completely, then cure for approximately 30-40 minutes at normal room temperatures. Multiple light coats can be applied, and will increase durability and protection. Typically 2-3 coats is sufficient.

Reapplication:

1. When release becomes hesitant, immediately clean mold and reapply one coat of ReleaSys™ MS 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:.....Thermoset Polysiloxane
 Appearance:.....Clear
 Odor:.....Alcohol
 Specific Gravity:.....1.3 g/mL @ 25°C
 Flash Point:.....<50°C

Storage and Handling:

ReleaSys™ MS 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™ MS should not be used at temperatures above 350 °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™ MS has a shelf life of 12 months from the 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.

ReleaSys™ Series	Slip	Durability	Releases per Application
8500	●●●●	●●●●	●●●●
8800	●●●●●	●●●●●	●●●●●
8900	●●●●●	●●●●●	●●●●●
8200	●●	●●●●	●●●●●

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Safety Data Sheet (SDS) is available upon request.