

## ReleaSys™ CMS Concrete Mold Sealer

### Description:

ReleaSys™ CMS is an ultra-high performance mold sealer, specifically designed for use on all concrete and fortified concrete applications. This unique coating will protect and extend the life of your sensitive silicone, rubber, and polyurethane mold surfaces. ReleaSys™ CMS forms an ultra-thin protective film on the surface of mold, filling any surface imperfections and creating a highly lubricous surface feel. When used in tandem with either our ReleaSys™ CR or ReleaSys™ CR-W, molders see a significant increase in mold service life, improvement in release ease, and consistent surface quality and finish. Due to its excellent film forming capability it acts as an excellent mold sealer and surface protectant, extending the service life of lower durometer molds. Properly applied, our product develops a long lasting thin-film on the mold surface with minimal mold build-up and absolutely no transfer.

- Superior protection of mold surfaces
- Extends service life of all concrete molds
- Superior film forming ability
- Improves quality and consistency of molded parts
- 100% VOC-free, water-based formulation

### Mold Sealer Applications:

ReleaSys™ CMS is formulated to provide unmatched utility and protection of typical molding surfaces:

- Silicone
- Urethanes
- Fluoroelastomers
- Acrylics
- Metallic
- Rubber
- Elastomers
- EPDM
- Epoxy
- Wood

### 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 is critical.
2. ReleaSys™ CMS can be applied by any spray equipment that can produce fine atomization and deposit a uniform, thin film. Apply lightly to a clean mold approximately 8-12 inches from the surface. Application of light coats is critical.
3. Application can also be done with a brush or cloth however this may require diluting the product with DI water to avoid excessive film thickness.

4. ReleaSys™ CMS will cure in approximately 1-2 hours at normal operating temperatures or allow to sit overnight.
5. Gentle application of air movement will accelerate drying and curing.

### Reapplication:

1. ReleaSys™ CMS should be reapplied whenever the mold surface is removed for a thorough cleaning. Typical reapplication intervals depends on numerous variables but can be anywhere from biweekly to monthly.

### Physical Properties:

Primary Polymer:.....Crosslinking Polysiloxane  
Appearance:.....White Emulsion  
Odor:.....None  
Specific Gravity:.....1.0 g/mL @ 25°C  
Flash Point:.....None

### Storage and Handling:

ReleaSys™ CMS 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™ CMS should not be used at temperatures above 260 °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™ CMS has a shelf life of 12 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.

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