



Product Information

www.miller-stephenson.com

MS-143AX PTFE Release Agent/Dry Lubricant

Description:

MS-143AX contains a proprietary ingredient that combined with PTFE results in a superior initial release action with up to 5 times the number of release cycles on metal molds. It is not recommended for use on rubber molds. It is an excellent dry lubricant for rubber on steel applications. It is not recommended as a dry lubricant for metal to metal. MS-143AX offers the following benefits:

- Efficient, consistent release of molded parts
- 5 times the number of release cycles
- Nonflammable, Non-ozone depleting
- Non-migrating; Non-staining

Release Agent Applications:

MS-143AX can be used to release the following materials with virtually no transfer of the release agent:

- Plastics
- Resins
- Acrylics
- Urethanes
- Nylons
- Rubbers
- Phenolics
- Polycarbonates
- Polystyrene
- Elastomers

Dry Lubricant Applications:

As a dry lubricant, MS-143AX is applicable on a variety of materials and will afford unmatched lubricity and wear resistance. These materials include:

- Metal
- Glass
- Rubber
- Wood
- Ceramics
- Elastomers
- Polycarbonates

Physical Properties:

Primary Polymer:.....Fluoropolymer
 Appearance:.....White Particle suspension
 Odor:.....Slight
 Density:.....1.6 g/mL @ 25°C
 Ozone depletion.....0.00
 VOC.....407 gms/l

Recommended Application Procedure:

1. Clean mold surface thoroughly. Mechanical cleaning such as, bead media blasting or steel wool, followed by chemical cleaning, provides the best surface for application of MS-143AX. Removal of all previous mold release agent is critical.
2. Mix product thoroughly prior to and continuously during use. If spraying, use spray equipment which provides a fine mist and ensure product is applied "wet". Proper air pressure and spray distance is critical for correct application of this product. Apply to mold surface that is below 50°C.
3. Allow solvent to dry completely before molding any parts. Failure to wait until all solvent is evaporated will result in drastically reduced product performance.

Reapplication:

1. When release becomes hesitant, reapply one coat of MS-143AX in the same manner as described above.

Fused Coatings Procedure (Optional):

1. After applying the release agent, heat the surface to 581°F - 600°F. Measure the surface temperature directly with a thermocouple.
2. A change in coating appearance from an opaque white to a darker, translucent will occur. Maintain the temperature of the coated surface for 5 to 10 minutes.
3. If a white residue is left on the metal surface, buff with a soft cloth. When the coating is properly fused, it is extremely durable.

Safety data sheet (SDS) is available upon request.

1468-4M

The recommendation made here with and the information set forth with respect to the performance or use of our products are believed, but not warranted to be accurate. The products discussed are sold without warranty, as to fitness or performance, express or implied and upon condition that purchasers shall make their own test to determine suitability of such products for their particular purposes. Likewise, statements concerning the possible uses of our products are not intended as recommendations to use our products in the infringement of any patent.

For 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 is a trademark of Miller-Stephenson Chemical Company Inc