



Product Information

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MS-143HN PTFE Release Agent / Dry Lubricant

Description:

MS-143HN is a versatile and robust release agent / dry lubricant, which utilizes a rapidly drying to enhance throughput and production efficiency. The formulation contains a high lubricity, low molecular weight PTFE fluoropolymer designed to not interfere with posting finishing operations. It is used for metallic and non-metallic molds. With its superior release action, it will yield up to three times the number of release cycles compared to the more economical Miller-Stephenson formulations. It is an excellent dry lubricant for all applications and surfaces. MS-143HN offers the following benefits:

- Efficient, consistent release of molded parts
- Outstanding lubricity and minimization of slip-stick
- Nonflammable, Non-ozone depleting
- Non-migrating; Non-staining

Release Agent Applications

MS-143HN 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-143HN 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
- Elastomers

Physical Properties:

Primary Polymer:.....Fluoropolymer
Appearance:.....White Particle suspension
Odor:.....Slight
Specific Gravity:.....1.34 g/mL @ 25°C
Ozone depletion.....0.00
VOC Content.....725 g/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-143HN. Removal of all previous mold release agent is critical.
2. Mix product thoroughly prior 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 which 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-143HN 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.

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