

MS-143TE

Mold Release Agent/Dry Lubricant

Description:

MS-143TE was developed as an efficient, economical and universal release agent. This formulation is a nonflammable, non-ozone depleting release agent/dry lubricant, containing a suspension of low-molecular PTFE (polytetrafluoroethylene) fluoropolymers. As a dry lubricant, MS-143TE minimizes "slip-stick" and is ideal for low speed, light load applications. MS-143TE offers the following benefits:

- Enhanced release agent durability/adhesion
- Efficient and consistent release of molded parts
- Outstanding lubricity (low coefficient of friction)
- Nonflammable, Non-ozone depleting formulation
- Non-migrating; Non-staining

Release Agent Applications

MS-143TE formulation chemistry can be used to release the following materials and comes in concentrations ranging from 1-10 % PTFE:

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| • Plastics | • Rubbers |
| • Resins | • Phenolics |
| • Acrylics | • Polycarbonates |
| • Urethanes | • Polystyrene |
| • Nylons | • Elastomers |

Dry Lubricant Applications

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

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| • Metal | • Ceramics |
| • Glass | • Elastomers |
| • Rubber | • Polycarbonates |
| • Wood | • Elastomers |

Physical Properties:

Primary Polymer:....Fluoropolymer
 Appearance:.....White Particle suspension
 Odor:.....Slight
 Specific Gravity:.....1.31 g/mL @ 25°C
 Ozone depletion:.....0.00
 VOC content:.....910 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-143TE. 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-143TE in the same manner as described above.

Fused Coatings Procedure

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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