

ReleaSys™ 7300 Semi-Permanent Mold Release Agent

Description:

ReleaSys™ 7300 is a semi-permanent mold release agent designed to provide superior durability and surface adhesion in cold molding operations. Utilization of a proprietary release agent and solvent system rapidly accelerates the drying and cure process allowing fast reapplication internals. Properly applied, our product develops a durable, thin-film on the mold surface with minimal build-up. ReleaSys™ 7300 will not interfere with post-production finishing operation. Benefits of this product include:

- Exceptional durability and surface adhesion
- Ideal for unheated or chilled mold surfaces
- Fast Drying; Rapid cure
- Clean, Non-oily, Non-migrating

Release Agent Applications:

ReleaSys™ 7300 is formulated to provide unmatched utility in low-temperature compression, injection and transfer molding with the following materials:

- Organic Polymer
- Thermoplastics
- Thermosetting resins
- Elastomers (Natural and Synthetic)
- Fluoroelastomers
- EPDM
- Acrylics
- Epoxy
- Neoprene
- Melamine

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™ 7300 requires light agitation prior and during application.
3. ReleaSys™ 7300 can be applied by hand wiping, dip, or spray equipment that can produce fine atomization and deposit a uniform, thin film. Multiple light coats can be applied, and will increase durability and maximize the number of releases.

4. Allow ReleaSys™ 7300 to dry completely before molding. Once dried, ReleaSys™ 7300 will exhibit a hard, slippery surface. If this is not developed the product has either not fully dried or was overapplied.
5. Allow product to dry completely and lightly buff the surface to removal overspray.

Reapplication:

1. When release becomes hesitant, immediately reapply one coat of ReleaSys™ 7300 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:.....Polysiloxane
Appearance:.....Milky Solid
Odor:.....Alcohol
Specific Gravity:.....0.88 g/mL @ 25°C
Flash Point:.....>50°C

Storage and Handling:

ReleaSys™ 7300 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™ 7300 should not be used at temperatures above 250 °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™ 7300 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.