



Product Information

www.miller-stephenson.com

ReleaSys HTX-L Boron Nitride Release Coating/Dry Lubricant

Description

Miller-Stephenson has developed an ultra high temperature industrial coating designed to provide an unmatched high temperature release agent and dry lubricant properties utilizing fine particle hexagonal boron nitride in a nonflammable, aerosol formulation. Utilizing our advanced chemistry and next-generation binder system, ReleaSys HTX-L develops an ultra-durable, thin-film coating on any metallic or ceramic surface. This coating imparts a low coefficient of friction, high lubricity, ultra thin film to surfaces. This coating provides ultra-fast dry times and superior performance without the need for heat curing. The product requires only a short dry time. ReleaSys HTX-L offers exceptional release properties, even at 1000°C, and complete protection from aggressive environments. The inert and non-wetting nature of the coating make it an excellent surface coating for welding splatter, casting of light metals, and as a high temperature dry lubricant. The use of advanced binders and levelling agents, means the applied coating is always applied uniformly and adheres tenaciously to all surfaces without extensive surface preparation. ReleaSys HTX-L can inhibit corrosion and chemical attack in metal forming, glass-making sintering processes, and high temperature molds thereby increasing die/mold life and improving product quality. Benefits include:

- Ultra-High Performance Ceramic Coating
- Unmatched Lubricity and Release ease
- Exception durability and surface adhesion
- Fast-drying, Air cure system
- High Temperature Stability up to 1000°C in air; 1800°C in Inert Atmospheres
- 100% Non-flammable formulation

Applications

- Mold Release for High Temperature and Difficult to Mold Polymers and Composites
- Mold Release for Casting Metals
- Mold Dressing for Powder Metal Processing
- Surface Coating for High Temperature Surfaces
- Barrier Coating for Aggressive Environmental Processes
- Ideal for Welding Splatter protection

Recommended Application Procedure

1. Clean surface thoroughly. Removal of all previous contaminants is critical, this provides the best surface for application of the ReleaSys HTX-L.

2. Invert can and shake vigorously for one minute. Apply approximately 8-10 inches away from surface and apply a light coat 4-6 inches from the surface.
3. **Make sure to shake can frequently during use, failure to do so will affect coating thickness and final performance.**
4. Material should be applied wet and allowed to dry to a fine-white coat.
5. A second light coating is recommended to guarantee complete coverage. The second coat should not be applied until the first coat has fully dried.
 - a. **Multiple coats can be applied, however excess application can lead to transfer into your molded part**
6. Allow solvent to dry completely. Molding can be performed without heat curing the coating.

Heat Curing Procedure

1. If required, the coating can be heated cured. This will provide additional durability, adhesion, and longevity in the applied coating.
2. To heat cure, bring the coating up to a minimum of 250°F and hold for 15-25 minutes. Cool back to room temperature.

Physical Properties:

Primary Polymer:.....Discrete Ceramic particle
Appearance:.....White particle suspension
Odor:.....Slight
Specific Gravity:.....1.3 g/mL @ 25°C

Safety Data Sheet (SDS) is available upon request.

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