



Product Information

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ShieldSys™ 197 Industrial Coating / Surface Sealer

Description:

ShieldSys™ 197 is a high performance, waterborne industrial coating designed to bind tenaciously to metallic surfaces offering unmatched durability and surface protection. This coating exhibits excellent self-leveling properties while also reducing overspray. The low-surface energy of the coating provides excellent utility in minimizing surface build-up and contamination. Utilizing thin-film polymer technology and anti-corrosion additives, this coating effectively seals most metallic surfaces preventing surface oxidation and damage. The novel chemistry of this coating allows for exceptional thermal stability and resistance to deterioration from repeated heat cycling. ShieldSys™ 197 pairs exceptional well with our ReleaSys™ mold release product line, providing a critical mold sealer / surface primer role. Benefits include:

- Eco-Friendly Waterborne System; No VOC
- Superior surface adhesion and durability
- High chemical and thermal resistance
- Anti-corrosive and low surface energy coating
- Thin-Film Technology maximizes effectiveness while minimizing application amount
- Ideally suited to pair with ReleaSys™

ShieldSys™ 197 Applications:

ShieldSys™ 197 was developed to provide exceptional utility as a chemically and thermally resistant barrier, providing low surface tension and corrosion resistance in a thin-film coating system.

Recommended Application Procedure:

1. Clean the surface thoroughly. Mechanical cleaning such as bead media blasting, followed by chemical cleaning, provides the best surface for application. Removal of all previous coatings and surface contamination is critical. Cleaning with MS-255 Surface Prep-Clean is an ideal cleaning solvent.
2. ShieldSys™ 197 can be applied by wiping or hand application techniques, however ideally would be applied with any spray equipment that can produce fine atomization and deposit a uniform, thin film.
3. When spraying, make sure to make even light passes, the carrier system is designed to "wet-out" the surface, so heavy, wet coats are unnecessary. The spray pattern should be North to South, followed by East-to-West to facilitate even, uniform coverage. A single coat is generally sufficient.

4. The surface to be coated can be slightly heated but should not exceed 120-130 °F. Heating the surface provides a more practical drying of the water.
5. Allow ShieldSys™ 197 to dry for a minimum of 60 minutes at room temperature and then cure for 1-2 hours at 200 °F. If no heating is available allow to cure for 8 hours or overnight.

Reapplication:

1. Due to the durability of this coating, reapplication is not advised unless a fully cleaning procedure is performed as described in STEP 1 of the Application Procedure.

Physical Properties:

Primary Polymer:.....Crosslinking Polysiloxane
Appearance:.....Clear Blue
Odor:.....Slight
Specific Gravity:.....1.0 g/mL @ 25°C
Flash Point:.....None
VOC:.....None

Storage and Handling:

ShieldSys™ 197 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; avoid high shear/high rpm mixing.

ShieldSys™ 197 should not be used at temperatures above 290 °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

ShieldSys™ 197 has a shelf life of 12 months from the date of shipment.

ShieldSys™ Product Line:

Miller-Stephenson offers a selection of high performance industrial coatings designed to provide excellent durability, abrasion resistance, and surface protection. Providing both traditional, solvent-borne and eco-friendly, waterborne coatings, Miller-Stephenson provides the most technological advanced chemistry for your critical applications.

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For further technical information call 800.992.2424 or 203.743.4447
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