

ShieldSys™ 1400 High Performance Industrial Coating

Description:

ShieldSys™ 1400 is a high-performance, thin-film industrial coating designed to exhibit superior adhesion and durability on all metallic surfaces. The cured coating provides exceptional abrasion and mar resistance, high slip, and high temperature stability (>500° F). ShieldSys™ 1400 adheres strongly to highly polished and plated surfaces providing enhance release and lubricity, while not affecting the desired surface finish. When applied to a substrate, it exhibits outstanding anti-stick properties and has a very low coefficient of friction. ShieldSys™ 1400 develops a long lasting thin-film that is non-oily and non-migrating. Benefits include:

- Superior Durability and Temperature Stability
- High lubricity: Thin-Film Coating
- Non-stick; Low Coefficient of Friction
- High Abrasion and Mar resistance
- Exhibits excellent release properties
- Rapid dry and cure times

Uses:

ShieldSys™ 1400 is formulated to provide unmatched utility in numerous industrial applications which require a highly durability, high slip, and high-temperature stable thin-film coating.

Recommended Application Procedure:

1. The surface to be coated must be clean, dry and at room temperature.
2. Mix together a small amount of ShieldSys™ 1400A and ShieldSys™ 1400B in a 1:1 ratio.
3. Wipe or spray a very thin coat and wait 15 minutes. Apply a second coat in the same manner and wait 15 minutes.
4. Once fully dry, lightly buff the surface.
5. Heat coated item to 100°C for a minimum of 15 minutes to fully cure the coating before use.

Pot Life:

Once mixed in the proper ratio the product should be kept in an airtight container when not in use. Maximum pot-life of the mixed coating is 48 hrs. in an airtight container.

Physical Properties:

Primary Polymer:.....Reactive Polysiloxane
Appearance:.....Amber Liquid
Odor:.....Aromatic
Specific Gravity:.....0.861 g/mL @ 25°C
Flash Point.....27.0 °C

Storage and Handling:

The precautions used in handling ShieldSys™ 1400 release coating are the same as those used in handling most coatings in industrial use. Contact with the skin should be avoided. If spraying, care should be taken to avoid inhaling mist or vapors, just as sprayed paint inhalation should be avoided.

If this product is exposed to extreme heat conditions from misuse or equipment failure, toxic decomposition products can occur. Always wash hands after handling ShieldSys™ 1400 coating.

Shelf-Life

ShieldSys™ 1400 has a shelf life of 12 months from the date of shipment.

ShieldSys™ Product Line:

Miller-Stephenson offers a selection of high performance water-based, solvent based coating systems to meet your coating or production needs. All variants of the ShieldSys™ Series will deliver higher productivity, less downtime, and higher quality products.

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