

ShieldSys™ 402 DryFilm Industrial Coatings

Description:

ShieldSys™ 402 PTFE Wire Coatings is a solvent-based coating designed to provide robust anti-stick and wear resistance for a variety of applications. This coating adds high lubricity and antistick properties to metal, glass, rubber, and plastic surfaces. Utilization of specialized binding system allows for enhance durability and wear resistance. Due to its solvent-based formulation, it offers accelerated drying and cure times relative to ShieldSys 815 and 402. Properly applied, it will develop a high adhesion and durable coating that excels on all insulating or conducting applications and as a dry lubricant. Benefits include:

- High lubricity; Anti-stick properties
- Enhance wear resistance
- Excellent adhesion to most substrates
- Non-migrating; Non-oil lubricant

Uses:

ReleaSys 402 coating adds high lubricity and antistick properties to metal, glass, rubber, and plastic surfaces. ReleaSys 402 on wire conductors provides a nonstick surface so insulation strips away easily. Coating insulated wire provides nonstick so multiple twisted wires do not stick together. DryFilm WDL10A also provides lubrication as a process aid for assembly.

Recommended Application Procedure:

- Dipping and Flooding – The easiest and most widely used method. A wiper system should be used to strip off excess amounts, ensuring a thin, even coating over the entire length of wire.
- Spraying – Particularly effective in depositing a very thin coating with excellent adhesion. This system can be used with an automated or hand spray gun.
- Wiping or Brushing – Very effective for coating small amounts of selected areas on a wire or cable.

Physical Properties:

Primary Polymer:.....Fluorochemical
Appearance:.....White
Odor:.....Alcohol
Specific Gravity:.....0.83 g/mL @ 25°C
Flash Point.....12 °C (TCC)

Storage and Handling:

The precautions used in handling ShieldSys 402 release coating are the same as those used in handling most coatings in industrial use. Contact with the skin should be avoided. Adequate ventilation must be provided in work areas. Breathing vapors should be avoided. If spraying, care should be taken to avoid inhaling mist or vapors, just as sprayed paint inhalation should be avoided.

Vapor may develop slight pressure. Therefore, care should be exercised when opening containers. Containers should be closed promptly after removing part of the contents to avoid evaporation.

If this product is exposed to extreme heat conditions from misuse or equipment failure, toxic decomposition products that include hydrogen fluoride can occur. Hydrogen fluoride has an ACGIH threshold limit value of 3 parts per million parts of air as a ceiling limit, an OSHA permissible exposure limit (PEL) of 3 ppm of fluoride as an 8-hr time-weighted average, and 6 ppm of fluoride as a short-term exposure limit (STEL). Always wash hands after handling ShieldSys 402 coating. Do not smoke while handling this product.

Shelf-Life

ShieldSys 402 has a shelf life of 6 months from the date of shipment.

ShieldSys™ Product Line:

Miller-Stephenson offers a selection of high performance water-based, and water/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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