



# Product Information

[www.miller-stephenson.com](http://www.miller-stephenson.com)

## ShieldSys™ 520 DryFilm Industrial Coatings

### Description:

ShieldSys™ 520 is a high-performance water and isopropanol-based industrial coating designed to exhibit superior substrate adhesion and durability. When applied to a substrate, it exhibits outstanding anti-stick properties and has a very low coefficient of friction. ShieldSys™ 520 develops a long lasting thin-film that is clean, non-oily, non-staining and chemically inert. Benefits of this product include:

- High lubricity, Dryfilm coating
- Non-stick; low coefficient of friction
- Clean, Non-oily, Non-migrating
- Allows easy removal of outer jacket on wire

### Uses:

ShieldSys™ 520 is formulated to provide unmatched utility in wire jacket removal due to its high lubricity and non-stick properties.

### 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 Emulsion  
Odor:.....Slight Alcohol  
Specific Gravity:.....1.0 g/mL @ 25°C  
Flash Point:.....34 °C (TCC)

### Storage and Handling:

The precautions used in handling ShieldSys™ 520 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™ 520 coating. Do not smoke while handling this product.

### Shelf-Life

ShieldSys™ 520 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, 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.

1618-6M

For further technical information call 800.992.2424 or 203.743.4447  
For product sales: CT 800.442.3424, CA 800.771.8161, IL 800.447.4866, Canada 800.307.2199  
[www.miller-stephenson.com](http://www.miller-stephenson.com)

Miller-Stephenson logo and ShieldSys™ are trademarks of Miller-Stephenson Chemical Company Inc