



General Chemical Aids



- Masks and cleaning agents for exceptional coating appearance
- Easy to use, safe and water soluble
- Developed for use with welding, brazing and thermal spray processes

SealTec-LT™ *Thermal Spray Sealer*

DESCRIPTION

All thermal sprayed coatings, with the exception of those that are fused, are inherently porous. Whenever these coatings are exposed to a corrosive media, they must be sealed to protect both the coating and the substrate.

SealTec – LT is a solid, wax-like material that is applied to the coating while it is still warm. It penetrates deeply into each pore of the coating to provide an impenetrable barrier to most corrosive agents. It will also enhance the machining characteristics of any coating by serving as a built-in lubricant. **Maximum operating temperature is 175°F.**

TECHNICAL INFORMATION

After spraying operations are completed, allow the shaft to air cool to 175°F. Apply the SealTec by exposing a section of the wax from the paper container and apply the SealTec directly to the shaft as it rotates at a moderate speed. The sealer will melt on contact and be absorbed into the coating. Apply a generous amount of product to fully seal the coating. Allow time for the shaft to cool and the SealTec to penetrate the coating and dry. Machine the part to size and warm the part to 150°F and apply a light second coat. Wipe off excess and allow to dry.

Solution® 103 *Thermal Spray Masking Compound*

DESCRIPTION

A paint-on masking solution for the protection of surfaces in most joining and coating applications. Should be used adjacent to the area being coated. Washes off with water. Prevents adhesion of coating to adjacent surfaces during application of Eutectic Castolin thermal spray alloys.

TYPICAL APPLICATIONS

Solution 103 is used to prevent the cohesion of particles from welding or spraying processes as well as acts as a stop-off agent in brazing efforts. The barrier formed with application is effective in reducing time and effort spent in cleaning and any undesirable effects spatter may have on the surrounding metal.

1. Part should be cleaned of dirt or dust.
2. Mix thoroughly and apply Solution 103 with paint brush. Solution will dry to yellow, powdery layer and may change color upon heating.
3. Multiple layers may be used as necessary or desired; for best results applied layer should be solid and continuous.
4. Brush or wipe off when coating or welding is completed

**DO NOT apply or drip Solution 103 on areas where coating is desired! After coating is completed, wash or wire brush the masked areas to remove the Solution 103 along with the unwanted coating particles.*

RoToCLEAN™

Degreaser Solvent

DESCRIPTION

RoToClean provides fast, penetrating power for removal of fingerprints or contamination from lubricants or cutting oils used on the tooling to prepare parts for the application of thermal spray coatings. RoToClean solvent does not contain any harmful fluorocarbon propellants.

TECHNICAL INFORMATION

RoToClean solvent has been formulated to provide fast, extra penetrating power for cleaning oils, fingerprints, and machining fluids from metal parts prior to applying thermal sprayed coatings. Simply spray at a distance of 4-6 inches from the surface. Wash area from top to bottom, allowing the force of the spray to flush away any dust or dissolved grease. For pinpoint application, use the attached extension tube for spot cleaning. Allow the area to dry completely before starting to preheat with a flame.

RoToGUARD®

Corrosion-Resistant Liquid Sealer
for Thermal Spray Coatings



- *RoToGUARD is flammable. Do not apply to hot shafts.*
- *Store away from heat or open flame.*
- *Keep can closed when not in use, product will evaporate.*
- *Avoid skin contact and prolonged inhalation.*

NOTE: RoToGUARD should not be used on parts whose service conditions subject them to carbon tetrachloride, naphtha, toluol and butanol.

DESCRIPTION

RoToGUARD is a proprietary organic solid dissolved in a fast drying solvent. After the solvent evaporates, a solid film of protective organic material remains which is capable of resisting chemical attack. RoToGUARD has unique wetting additives for exceptional penetration into metal micro-pores and crevices. It protects metal from corrosive media such as acetic, citric, lactic, mild nitric, sulfuric, and hydrochloric acids, and mild caustics. It also resists saline solutions, alcohols, corrosive cutting fluids, ammonia, sulfur dioxide gases and various slurries and muds.

TECHNICAL INFORMATION

1. After spraying operations are completed, allow shaft to cool in air by rotating in a lathe. **DO NOT QUENCH!**
2. Part **MUST** be cool enough to touch with bare hands before applying RoToGUARD. Using a swab or brush, apply liberally over entire thermal spray coating and adjacent areas. For small parts, immersion is recommended.
3. Allow enough time for the RoToGUARD to penetrate and dry.
4. Machine excess thermal spray coating until final dimension is achieved.
5. Apply a second coat of RoToGUARD to the finished part.
6. Wipe off excess and allow to dry. Part is now sealed and ready for service.

TYPICAL APPLICATIONS

Parts subject to corrosive attack under service such as:

- Rudder Stocks
- Conveyor Shafts
- Crank Shafts
- Propeller
- Shafts
- Compressor Pistons
- Fan Shafts
- Pump Sleeves
- Plungers and Food Mixers
- Impellers
- Pump Shafts
- Packing Glands
- Hydraulic Pistons

Eutecto-Mask

Protects Metal Surfaces

DESCRIPTION

A high-temperature compound for protecting critical surfaces from heat staining or spatter adhesion. It is excellent for use as a brazing “stop off” compound.

TYPICAL APPLICATIONS

Use Eutecto-Mask compound on steel, cast iron, stainless steels and nickel alloys; it is also suited for application on copper, brass, bronze and aluminum.

Eutecto-Mask makes your finished part look good by aiding in the removal of spatter and preventing discoloration and heat stains in thermal spray and welding processes.

APPLICATIONS

- Guards against arc welding spatter, making it ideal for tool room welding.
- Prevents zinc coating from volatilizing when welding galvanized iron.
- Protects against base metal oxidation.
- Protects stainless steel sheet during fabrication.
- Protects molds, dies, tools, rolls, tanks and stainless steel appliances.
- Protects machined parts, threaded areas, stamping dies, cutting tools.
- Protects chrome-plated steel bumpers and moulding from discoloration.
- Protect costly jigs and fixtures from spatter when fabricating ornamental iron works.

PROCEDURES

1. Apply compound on both sides of the weld area, the paste outline serves as a guide, indicating exactly where the weld bead is to be deposited. Its yellow color easily indicates any void areas, thus ensuring complete coverage before welding. One application is sufficient, even for multi-pass welds. For a thinner consistency, a small amount of water may be added, and thoroughly blended into the paste.
2. After welding, remove spatter and compound by wiping or brushing.
3. For best results, apply at 1/16” thickness.



Eutectic Corporation:
N94 W14355 Garwin Mace Dr.
Menomonee Falls WI, 53051 USA
+1 800. 558. 8524 • eutectic.com

Eutectic Canada:
428, rue Aimé-Vincent Vaudreuil-Dorion,
Québec J7V 5V5 Canada
+1 800. 361. 9439 • eutectic.ca



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