

technical data

Semco® Pasa-Jell 105 and 105-M

bond enhancement/aluminum alloys

Use

To improve the metal bond adhesions of aluminum alloy.

Description

Semco® Pasa-Jell 105 and 105-M are blends of acids, activators, and inhibitors designed to provide a balanced ratio of compounds to maintain the effectiveness of etch rate.

Semco® Pasa-Jell 105 is inorganically thickened to permit application in localized areas. Semco® Pasa-Jell 105-M does not contain the inorganic thickener permitting immersion of large surfaces.

Improvement of bond strength is based on surface activation which provides a receptive surface for adhesion.

Semco® Pasa-Jell 105 and 105-M chemically clean and activate the surface to provide improved chemical bonding of the adhesive.

The etch life of Semco® Pasa-Jell 105 and 105-M is approximately 500 to 1,000 square feet of surface per gallon.

Physical properties (typical)

Color	Red
Weight per gallon	
Semco® Pasa-Jell 105	11 lbs.
Semco® Pasa-Jell 105-M	11 lbs.
Consistency	
Semco® Pasa-Jell 105	Thixotropic gel
Semco® Pasa-Jell 105-M	Liquid

Purchasing data

Product designation: When ordering this product designate Semco® Pasa-Jell 105 or Semco® Pasa-Jell 105-M.

Standard packaging

Designation	Container
Quart	Plastic bottle

Shipping classification

Corrosive Liquid, N.O.S. UN 3264.

Special shipping instructions

Class 8 - Corrosive label required.

Application

For optimum results, the surface should be degreased with a solvent followed by either a wet or, preferably, a dry blast with a fine grit of 250 or 320 aluminum oxide to remove all corrosion products and to condition the metal surface before application of the Semco® Pasa-Jell product. Where blasting is not practical, the surface can be sanded lightly with aluminum oxide coated abrasives.

Apply a layer of Semco® Pasa-Jell 105 to localized areas with a polyethylene, polypropylene or fluorocarbon bristle brush immediately following the abrasive treatment and allow it to stand for about 15 minutes. The Semco® Pasa-Jell product should then be rinsed off with cool tap water and allowed to dry at room temperature.

For immersion treatment of large metal surfaces, use Semco® Pasa-Jell 105-M in tanks.

Note: Tank linings for Semco® Pasa-Jell products should be made of polyethylene or unplasticized polyvinyl chloride.

It is important that the part and the Semco® Pasa-Jell 105-M tank solution be held below a temperature of 100° F. This also applies to any tap water rinsing. Treated parts should be dried with cool air prior to priming.

The time limit for the application of primer after rinsing should be held to a minimum, preferably not in excess of one hour, because there is a decay rate of the surface activity. The maximum benefit can be derived by priming the surface soon after the Semco® Pasa-Jell treatment.

Storage

Semco® Pasa-Jell 105 and 105-M have a storage life of one year without significant loss of activity when stored in a cool, dry area in the original, unopened containers.

Safety precautions

Danger: Extremely hazardous liquid and vapors.

Avoid contact with skin, eyes, and clothing. Causes irritation to skin, eyes, nose, and throat. Avoid breathing vapors. Store in a cool, dry area in tightly closed containers.

Health precautions

Semco® Pasa-Jell 105 and 105-M have been proven to be a safe material to handle when safety and handling precautions are followed. Avoid contact with skin and clothing. Wear rubber gloves, a face shield, and respiratory protection. Avoid breathing vapors. Always work in a well ventilated area. For complete health and safety information, consult the material safety data sheet.

In case of contact, immediately wash skin with large quantities of soap and water. Flush eyes with large quantities of water for 15 minutes or more. Remove all contaminated clothing and shoes. First aid may be required and a physician should be consulted.

If swallowed, give no emetic. Call a physician immediately. Give large quantities of water at once.

For chemical burns, wash the affected area with large quantities of water. Make sure all the adhering chemical is removed.

Disposal

Refer to the material safety data sheet.

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