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Product Description Sheet

Hysol® Product 9436

Industrial Products, August 2001

Description

Loctite® Hysol® 9436 is an unfilled two part room temperature curing epoxy adhesive with excellent strength retention at elevated temperatures. It consists of a liquid resin and curing agent. Hysol 9436 yields rigid bonds that are resistant to salt spray and humidity exposure. This adhesive can also be used for laminating and for potting small assemblies.

Features

Excellent Tensile Shear Strength
High Temperature Resistant
Outstanding Environmental Resistance
Low Viscosity - pourable
Room Temperature Curing

Typical Uncured Properties	Part A	Part B	Mixed
Pot Life @ 77°F, 250 grams mins	--	--	45
Color	Amber	Green	Pale Green
Viscosity, cP	40,000	1000 to 3000	11,000
Specific Gravity	1.22	0.95	1.10
Mix Ratio			
By weight	100	58	--
By volume	4	3	--
Density, Lbs/Gal	10.5	8.0	9.2

Shear Strength, psi, ASTM D 1002 Etched Aluminum

Cure Schedule	Test Temp °F	Typical Value
5 Days @ 77°F	-67	1800
	77	2100
	180	1850
	300	900
Degreased Aluminum	77	900
FRP	77	900
Graphite-Epoxy laminate	77	3300

Typical Properties	Typical Value
Tensile Strength, psi, ASTM D 638	5900
Modulus, psi, ASTM D 638	370,000
Elongation, %, ASTM D 638	2.4
Hardness, Shore D	80

Shear Strength after Environmental Exposure psi, ASTM D 1002 Etched Aluminum Cured 5 Days @ 77°F

	Test Temp °F	Typical Value
30 Day salt Spray	77	1950
30 day 120°F/100% RH	77	1600
7 Day Hydraulic Fluid @ 77°F	77	3000

GENERAL INFORMATION

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.

For safe handling information on this product, consult the Material Safety Data Sheet, (MSDS).

Handling

Mixing: This product requires mixing two components together just prior to the application. Complete mixing is necessary. The temperature of the separate components prior to mixing is not critical, but they should be at room temperature.

Application

Mixing – Bulk: Combine Part A (resin) and Part B (hardener) in the correct ratio and mix thoroughly. This is important! Heat build-up during or after mixing is normal. Do not mix quantities greater than two pounds as dangerous heat build-up can occur. Mixing smaller quantities will minimize the heat build-up.

Application: Bonding surfaces should be clean and dry. Once the adhesive is applied, the bonded parts should be held in contact until the part has developed handling strength. It is not necessary to clamp the parts unless movement during curing is likely.

Cure: Hysol 9436 can be cured for 5 days at room temperature. Curing temperatures up to 200°F can be used to reduce cure time. For example, 1 hour at 180°F will give complete cure.

Clean up: It is important to remove excess adhesive from the work area and application equipment before it hardens. Many common solvents and citrus cleaners are suitable for removing uncured adhesive. Consult with your supplier's information pertaining to the safe and proper use of solvents.

Storage

Products shall be ideally stored in a cool, dry location in unopened containers at a temperature between 2° to 8°C (36° to 46°F), unless otherwise labeled. Optimal storage conditions of this product is achieved with refrigeration: Refrigerated packages shall be allowed to return to room temperature prior to use. To prevent contamination of unused product, do not return any material to its original container. For specific shelf-life information, contact your local Technical Service Center.

NOT FOR PRODUCT SPECIFICATIONS
THE TECHNICAL DATA CONTAINED HEREIN ARE INTENDED AS REFERENCE ONLY.
PLEASE CONTACT LOCTITE CORPORATION QUALITY DEPARTMENT FOR ASSISTANCE AND RECOMMENDATIONS ON SPECIFICATIONS FOR THIS PRODUCT.
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Note

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