IRS 2126
Fast Cure Flexible Epoxy Adhesive

Description

IRS 2126 Fast Cure Flexible Epoxy Adhesive is a high performance, thixotropic black resin system. Its combination of flexibility and high adhesive strength lends itself to many high technology bonding applications.

A two-part system with a simple 1:1 mix ratio, it is supplied in a convenient side-by-side double syringe cartridge, complete with static mixing nozzles, or in small twinpacks.

Key Properties

- Cures to a flexible polymer
- Sets in minutes at room temperature
- Will bond to most substrates, including metal, glass, wood, rubber and many plastics
- Good adhesion to flexible substrates
- Good temperature and oil resistance
- Good shock resistance
- Conveniently packaged – supplied in 50ml dual cartridge for easy application, or in small twinpacks
- Long shelf life – 12 months from date of manufacture

Typical Properties

Property	
Mix ratio	1:1
Mixed viscosity	25,000 cps
Colour	Black
Hardness, Shore D	80
Operating temperature	-40 to +150°C

Cure Schedule

Bondline Temperature	Pot Life	Handling Strength	Full Cure
RT (23°C)	5 -10 minutes	20 minutes	2 hours

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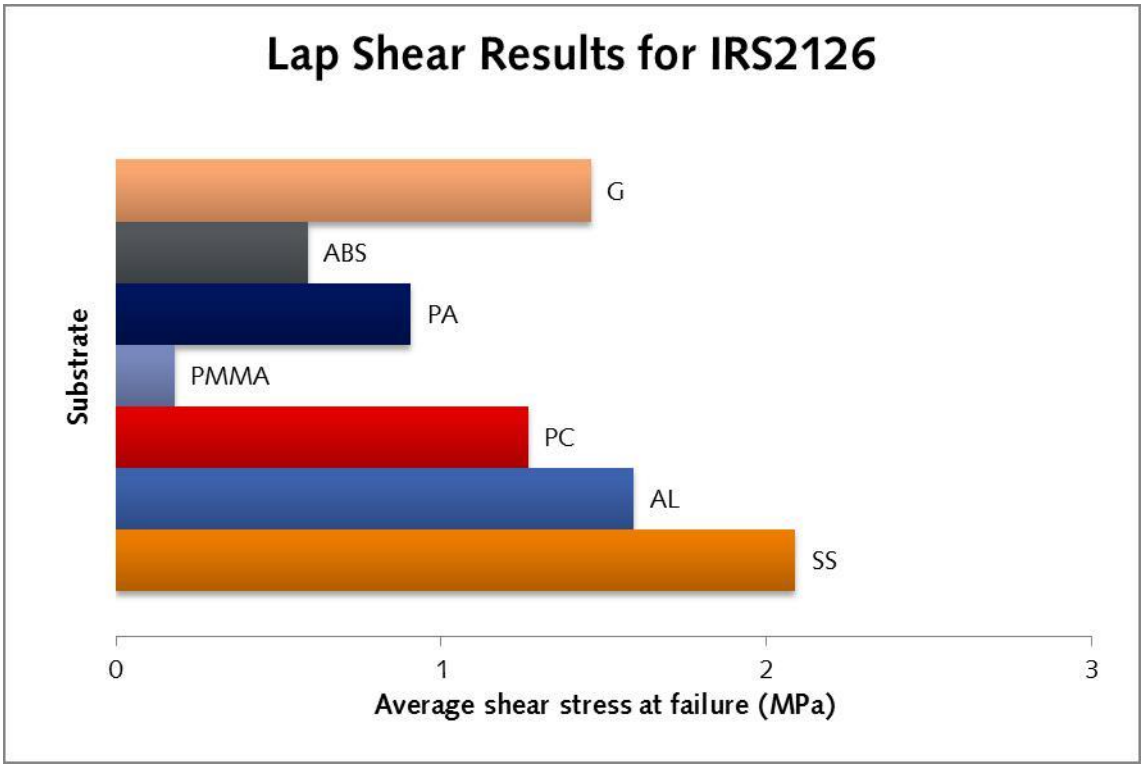
Cure time will depend on cross sectional area, ambient conditions, and mixing method. The above data is given as a guide only. Hotter temperatures may be used for faster cure but will result in higher post cure shrinkage and higher cure exotherm. Experimentation and testing is suggested to avoid side effects.

Lap Shear Adhesion

Substrate	
Stainless steel	2.1 MPa
Aluminium 6082 T	1.6 MPa
Polycarbonate	1.3 MPa
PMMA	0.2 MPa
Nylon 6/6	0.9 MPa
ABS	0.6 MPa
Glass	1.5 MPa



Peel Strength

Substrate	
Neoprene to Neoprene	50N/25mm

Storage and Shelf Life

12 months at 25 +/- 10 °C

Many epoxy resin systems are prone to crystallization as epoxy resin is a super-cooled fluid. This condition may give the product a gritty or grainy appearance (or hazy in clear products). Products in this state will not usually cure to normal and expected properties. In extreme cases it may appear solid and cured. Fluctuating temperatures (within 5 to 50 °C) aggravate this phenomenon. Heating the individual component to 50 to 60 °C while stirring can usually restore products to original state.

Health and Safety

Epoxy resin systems may cause sensitisation by skin contact or inhalation may be corrosive, harmful or toxic. It is therefore strongly recommended that skin and eye contact is avoided by the using of appropriate personal protective equipment such as gloves, safety glasses or goggles and overalls.

Wash any contamination from the skin immediately and thoroughly and do not eat, smoke or drink in the working vicinity. Under normal working conditions a good source of ventilation is adequate, however if the material is heated, or where vapour levels are likely to exceed the occupational exposure limits appropriate respiratory protection must be worn.

Local exhaust ventilation (LEV) may be required especially for curing ovens or where large volumes of material are curing.

The above is given as a guide only; please refer to IRS2126 safety data sheet individual/specific advice.

Useful Resources

Product webpage

Warranty

Statements, technical information and recommendations contained herein are based on tests we believe to be reliable but they are not to be construed in any manner as warrantees expressed or implied. The user shall determine the suitability of the product for his intended use and the user assumes all risk and liability whatsoever in connection therewith.