

IRS 2128 Toughened Epoxy Adhesive



Description

Also available to buy online at [!\[\]\(666e09182d4cd268646ea700ea60dcdf_img.jpg\)](#)
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IRS 2128 Toughened Epoxy Adhesive is a high performance black resin system. It has excellent adhesion to a wide variety of substrates and good chemical resistance. A two part system with a simple 1:2 mix ratio, it is supplied in a convenient side-by-side double syringe cartridge, complete with static mixing nozzles.

This adhesive is a good candidate to test for applications where there is vibration, impact or thermal shock. Its resiliency allows this adhesive to withstand impact and vibration stresses, absorb energy, and to deal with bonding materials with different CTEs under thermal cycling.

Features & Benefits

- Excellent adhesion to a variety of metals, plastics, and GRP
- Toughened
- Impact resistant
- Dimensionally stable
- Long pot life
- Thixotropic, gap filling
- Good general chemical resistance

IRS 2128 Toughened Epoxy Adhesive



- RoHS compliant

Applications

- Bonding of metals, composites or plastics

Specifications

Specification		
Mix ratio by weight	1.87:1	
Mix ratio by volume	2:1	
Viscosity	Thixotropic	
Colour	Black	
Specific gravity	1.74	
Working life	60 minutes @ room temperature	

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Specification		
Cure schedule	Bondline temperature Room temperature (20-25°C) 40°C	Time 96 hours – full cure 24 hours – full cure
Typical properties		
Hardness, Shore D	70-80	
Temperature range	-55 to +140°C	
Thermal conductivity	1.0 W/mK	
Tensile strength	45 MPa	
Compressive yield strength	<10 MPa	
Coefficient of linear expansion	40-60 ppm/C	
Volume Resistivity	1.3×10^{10} ohm-cm	
Electric strength	15 kV/mm	
Water absorption (7 days @ 23°C)	0.4%	

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Lap shear adhesion	
Aluminium to Aluminium	14 MPa
Copper to Copper	15 MPa
Stainless Steel	18 MPa
ABS to ABS	3.1 MPa
Nylon 6 to Nylon 6	2.1 MPa
Acrylic to Acrylic	3.2 MPa

Safety Data Sheets
For the latest SDS for this product, please e-mail msds@intertronics.co.uk

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Other Information



[Structural Adhesives Selector Guide](#)

Start your adhesive selection process by reading our Structural Adhesives Selector Guide, detailing different chemistries and material specifications.

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Adhesive Problem? What's the Cure?

A guide to adhesive bonding, considering structural bonding and the criteria involved for successful assembly.

See how one customer got results from IRS 2128 for a bonding application in this [Case Study](#):

Application Insight ULTRASONIC PROBE BONDING

Bonding elements into non-destructive, ultrasonic test equipment

IRS 2128



Application Insight – Ultrasonic Probe Bonding

Bonding elements into non-destructive, ultrasonic test equipment for a variety of industries including gas, oil, road and rail transport and aerospace with IRS 2128

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Our [Technical Bulletins & Articles](#) page has links to:

- [Instructions: 50ml Side-by-Side Double Syringe Cartridges](#)

Ordering Information



IRS 2128 is available in a convenient 50ml side-by-side double syringe cartridge. Large cartridges and bulk packaging are available.

The IRS2128-50KIT contains a 50ml cartridge of epoxy, a Syringe Gun and three static mixing nozzles. It is ideal for product evaluations or small quantity users.

Part number	Description
<div>IRS2128-50ML</div> <div></div>	<div>Toughened Epoxy Adhesive, Double Syringe Cartridge, 50ml</div>

IRS 2128 Toughened Epoxy Adhesive



Part number	Description
IDM805001	Dispensing Gun
IDM2N10	Static Mixing Nozzle (pkg 10)
IRS2128-50KIT  	Toughened Epoxy Adhesive Kit – contains 50ml cartridge of epoxy, a Syringe Gun and three static mixing nozzles

Storage: Store in the original unopened containers under cool dry conditions between 15° and 25°C.

Let's start by talking about your application

IRS 2128 Toughened Epoxy Adhesive



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orders@intertronics.co.uk

- Name*
- Company*
- Phone*
- Email*
- Post code*

If you're in the UK, knowing your postcode would help us get in touch even more quickly. If you're outside the UK, please indicate your country.

-
- Tell us about your application

IRS 2128 Toughened Epoxy Adhesive



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