

IRS 2112 Fast Curing General Purpose Epoxy Adhesive



Description

Also available to buy online at  **SHOP** 

IRS 2112 Fast Curing General Purpose Epoxy Adhesive is a popular, rapid curing, general purpose two-part epoxy adhesive. It has excellent adhesion to a wide variety of substrates, including metal, glass, composites, GRP, glass fibre, ceramic, ferrite, wood, rigid plastic and many other common substrates. It can be used for structural bonding and sealing.

IRS 2112 cures to handling strength in minutes (even in smaller mass applications), and typically reaches full cure in 6-12 hours. Mixed, it has a viscosity like syrup, and cures to a hard, glossy, almost-clear finish.

IRS 2112 is supplied in convenient side-by-side double syringe cartridges.

Features & Benefits

- Versatile, general purpose adhesive

IRS 2112 Fast Curing General Purpose Epoxy Adhesive



- Fast curing
- Excellent electrical properties
- Convenient packaging
- Non-toxic
- RoHS compliant

Specifications

IRS 2112 Fast Curing General Purpose Epoxy Adhesive



Specification	
Mix ratio	1:1
Mixed viscosity	27,000 cPs
Gel time (room temperature)	4-5 minutes
Hardness, Shore D	75-80
Specific gravity (mixed)	1.15
Temperature resistance	-55°C to +100°C
Tracking resistance (CTI)	>600 V
Volume resistivity	15^{10} ohm.cm
Dielectric strength (2mm)	20 kV/mm
Dielectric constant	4.1 50Hz
Dielectric loss factor Tan delta	0.8 50Hz
Colour	Clear/Amber

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Cure Schedule

Bondline temperature	Working life	Light handling	Full cure
2g mass @ RT	3 minutes	60 minutes	12 hours
10g mass @ RT	2 minutes	10 minutes	6 hours

Lap shear adhesion

Material	Shear stress at failure (MPa)
Aluminium to Aluminium	14 MPa
PVC to PVC	4.6 MPa
Copper to Copper	9 MPa
Nylon 6 to Nylon 6	2.3 MPa

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Material	Shear stress at failure (MPa)
Stainless Steel	13 MPa
Acrylic to Acrylic (PMMA)	3.2 MPa

Safety Data Sheets

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

Other Information

IRS 2112 Fast Curing General Purpose Epoxy Adhesive



[Structural Adhesives Selector Guide](#)

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




[Adhesive Problem? What's the Cure?](#)

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

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See how one customer got results from IRS 2112 for a sensor bonding application in this [Case Study](#):







<div><p>Application Insight</p><p>TRAIN TRACK LEVELLING SENSOR BONDING</p><p>Bonding of levelling sensors to concrete railway bearers and sleepers</p><p>IRS 2112</p></div>	<p>Application Insight – Train Track Levelling Sensor Bonding</p> <p>Bonding of levelling sensors to concrete railway bearers and sleepers using IRS 2112.</p>
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Ordering Information

Part number	Description
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IRS 2112 Fast Curing General Purpose Epoxy Adhesive





<div>IRS2112-50G</div> <div><div>SHOP </div></div>	<div>Double syringe cartridge, 50 gram</div>
<div>IRS2112-50KIT</div> <div><div>SHOP </div></div>	<div>Fast curing general purpose epoxy adhesive kit includes:</div> <div><ul style="list-style-type: none">· 1 x IRS2112-50G Double syringe cartridge· 1 x IDM805001 Syringe gun· 3 x IDM2N10 Static mixing nozzles</div>
<div>IRS2112-200G</div> <div><div>SHOP </div></div>	<div>Double syringe cartridge, 200 gram</div>

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

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Let's start by talking about your application

<div><div>01865</div></div> <div>842842</div>	<div><div></div></div> <div>orders@intertronics.co.uk</div>
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■ Name*

■ Company*

■ Phone*

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IRS 2112 Fast Curing General Purpose Epoxy Adhesive



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

Any information that you submit using this form will be processed according to our [privacy policy](#).

■ Phone

This field is for validation purposes and should be left unchanged.

Submit

Supplied by:

intertronics

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