5 Minute[®] I-FR

ORDERING INFORMATION

	<u>Stock No.</u> 14272	Package Size 50ml			
Description	Flame retardant, Non brominated, antimony free, 5 minute 2 component epoxy paste. Ideal for those applications requiring a self extinguishing structural system.				
Features	 UL94V-0 approval Non-brominated/antimony free Meets BSS 7239 Toxicity of combustions Gas-Flamming mode Meets FAR 25.853 (a) 60 sec. Vertical Burn Test Meets FAR 25.853 (d) smoke density RoHS compliant 				
Intended Use	 Potting inserts for aerospace industry Where self extinguishing structural epoxy system(s) are required. 				
PRODUCT DATA					
Typical Physical Properties Uncured	Colour Viscosity cps @23 ⁰ C Mixed Viscosity cps @23 ⁰ C Mixed Ratio by Volume Mixed ratio by Weight Mixed Density g/cc Working Time @ 23 ^o C Fixture Time @ 23 ^o C Functional Cure @ 23 ^o C Full Cure @ 23 ^o C	White Resin: 70,000 Hardener: 42,000 55,000 1:1 100:95.4 1.25 4 - 8 minutes 10 - 15 minutes 1 Hour 12 Hours			

Typical Physical Properties Cured	7 days at 23°C Shore Hardness Dielectric Strength Tensile Lap Shear St Tensile Lap Shear St Cured Density g/cc Service Temperature Solids by volume	trength (AL) trength (GBS)	84 Shore D 19.6 KV/mm 11.9 MPa 9.8 MPa 10.8 MPa 1.33 -40°C – 93.°C 100%	
Chemical Resistance	7 days room temper Acetic (dilute) 10% Ammonia Cutting Oil Petrol Unleaded Isopropanol MEK Motor Oil Sulphuric acid 10%	rature cure (30 days Poor Fair Excellent Excellent Fair Poor Excellent Poor	immersion) Acetone Corn oil Ethanol Glycols/ Antifreeze Kerosene Mineral Spirits Sodium Hydroxide 10%	Poor Excellent Poor Fair Excellent Excellent Fair

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APPLICATION INFORMATION

Surface Preparation	Clean surface by solvent wiping any deposits of heavy grease, oil, dirt, or other contaminates. Surface can also be cleaned with industrial cleaning equipment such as vapour phase degreasers or hot aqueous baths. If working with metal, abrade or roughen the surface to significantly increase the microscopic bond area and increase the bond strength.
Application Instructions	 Proper homogenous mixing of resin and hardener is essential for the curing and development of stated strengths 1. Apply mixed epoxy directly to one surface in a even film or as a bead 2. Assemble with mating part within recommended working time 3. Apply firm pressure between the mating parts to minimise any gap and ensure good contact (a small fillet of epoxy should flow out of the edges to display adequate gap fill)
	For very large gaps Apply epoxy to both surfaces Spread to cover entire area OR make a bead pattern to allow flow through out the joint
	Bond line guidelines All metal bonds were MEK wiped, abraded (80 grit sand paper) and MEK wiped again. Bond line thickness was 0.25mm
Storage Shelf Life	Store at room temperature $(15^{\circ}C - 30^{\circ}C)$ Shelf life is two years from data of manufacture
Precaution	For complete safety and handling information, please refer to Material Safety Data Sheets prior to using this product.
Warranty	Devcon will replace any material found to be defective. Because the storage, handling and application of this material is beyond our control we can accept no liability for the results obtained.
Disclaimer	All information on this data sheet is based on laboratory testing and is not intended for design purposes. ITW Devcon makes no representations or warranties of any kind concerning this data. For product information visit <u>www.devconeurope.com</u> alternatively for technical assistance please call +44 (0) 870 458 7388 (UK) or +49 431 718830 (Germany)

