5 Minute[®] Epoxy

ORDERING INFORMATION

	<u>Stock No.</u> 14251 14210 14201 14270 14272		Package Size 25ml Dev-tube 70g Twin-tube 500g Tub 50ml Cartridge 400ml Cartridge	
Description	A rapid-curing, general-purpose adhesive / encapsulant. It forms a hard, rigid bond or coating in minutes			ard, rigid bond or
Features	 100% reactive, no solvents Good dielectric strength Good solvent resistance 			
Intended Use	 Cures fast for quick metal to metal bonding and repairs Pots and encapsulates electronic components and assemblies Suitable for bonding metals, fabrics, ceramics, glass, wood and concrete (in combinations) 			
PRODUCT DATA	1			
Physical Properties (Uncured)	Colour Mixed Viscosity Mixed Ratio by Volume & Weight Working time 28 grams @ 23°C Fixture time Functional cure @ 23°C Full Cure Mixed Density		Light Amber 10,000cps 1:1 3 - 6 minutes 10-15 minutes 45 - 60 minutes 12 hours 1.10 gm/cc	
Performance characteristics (cured)	7 days cured at 24°C Adhesive tensile shear ASTM D1002 T Peel Service temperature, dry Tensile Elongation Specific Volume % solids by volume Cured hardness, ASTM D2240 Dielectric strength, ASTM D149		13 MPa 4-5 N/10mm -40 - 93°C 1% 909 cm ³ /kg 100 85D 19.6 KV/mm	
Chemical Resistance	7 days room temperatu Acetic (dilute)10% Ammonia Cutting oil Petrol (unleaded) Hydrochloric 10% Kerosene Mineral Spirits Sodium Hydroxide 10%	Ire cure (30 days Poor Poor Excellent Excellent Poor Excellent Excellent Poor	a immersion) Acetone Corn Oil Ethanol Glycols/Antifreeze Isopropanol MEK Motor Oil Sulphuric 10%	Poor Excellent Poor Fair Poor Poor Excellent Poor

Please contact ITW Devcon for other chemicals

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APPLICATION INFORMATION

Surface Preparation	5 Minute Epoxy works best on clean surfaces. Surfaces should be free of heavy deposits of grease, oil, dirt or other contaminants, or cleaned with industrial cleaning equipment such as vapour phase degreasers or hot aqueous baths. Abrading or roughing the surfaces of metals will increase the microscopic bond area significantly and optimise the bond strength.
Mixing	This product is available in cartridge, non-cartridge and 28g Devtube form. Cartridge Form: The cartridge should be used with the appropriate manual Applicator Gun and Static Mixer Nozzle. The Static Mixer Nozzle enables the epoxy to be dispensed, metered and directly applied to the surfaces to be bonded. Please note: Once the product cures in the nozzle it has to be thrown away and a new nozzle used. Non-Cartridge Form: Proper homogenous mixing of the two epoxy components of resin and hardener are essential for the curing and development of stated strengths. Always mix the two components with clean tools, preferably of a disposable design. For small amounts use Devcon's 28g Devtube, which comes with it's own plunger to extrude the two components at an equal rate.
Application	Apply mixed epoxy directly to one surface in an even film or as a bead. Assemble with the mating part within the recommended working time. Obtain firm contact between the parts to minimize any gap and ensure good contact of the epoxy with the mating part. A small amount of epoxy should flow out the edges to show there is adequate gap filling. For very large gaps, apply epoxy to both surfaces and spread to cover the entire area, or make a bead pattern, which will allow flow throughout the joint. Let bonded assemblies stand for the recommended functional cure time before handling. They are capable of withstanding processing forces at this point, but should not be dropped, shock loaded or heavily loaded.
Storage Shelf Life	Devcon Epoxy Adhesives should be stored in a cool, dry place when not used for a long period of time. A shelf life of 3 years from date of manufacture can be expected when stored at room temperature 22°C in their original containers.
Precaution	For complete safety and handling information please refer to the appropriate Materials 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)

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