1 Minute® Epoxy

ORDERING INFORMATION

	Stock No.	Package		
	14277	50ml Ca	artridge	
Description	A super-fast general purpose thixotropic epoxy adhesive for applications requiring fast fixing. This quick curing formula is excellent for bonding metals, fiberglass, and ceramics.			
Features	 Non-sagging on vertical and overhead surfaces 100% reactive, no solvents 			
Recommended applications	 Part fixturing in less than 1 minute Ideal for repairing or assembling furniture, jewellery, china, appliances and models Fast cure metal-to-metal bonding and repairs Suitable for bonding metals, glass, fibreglass, fabrics and ceramics 			
PRODUCT DATA				
Physical Properties (Uncured)	Colour Mixed Viscosity, cps Mixed Ratio by Volume Mixed ratio by weight Mixed Density Working time 28gm @23°C Fixture time @23°C Functional cure @ 23°C Full cure		Translucent 70,000 cps 1:1 1:1 1.13 gm/cc 45 seconds 1 minute 30 . 45 minutes 2 hours	
Physical Properties (Cured)	7 days cured at 24°C Adhesive tensile shear, (steel) T Peel Service temperature, dry Cured hardness, ASTM D224 Dielectric strength, ASTM D25 Tensile elongation % Solid by volume Specific volume	0	11 MPa 4 . 5 N/10mm -40 - 93_C 82D 19.6 KV/mm 1% 100 884 cm ³ /kg	
Chemical Resistance	7 days room temperature cure (30 days immersion)			
	Acetic (Dilute) 10%PoorAmmoniaPoorCutting OilExcellePetrol (unleaded)PoorHydrochloric 10%PoorKeroseneExcelleMineral SpiritsExcelleSulphuric 10%Poor	nt	Acetone Corn Oil Ethanol Glycols / Antifreeze Isopropanol MEK Motor Oil	Poor Excellent Poor Fair Poor Poor Excellent

Please consult Biga Group for other chemicals



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APPLICATION INFORMATION

General Surface Preparation	1 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 optimize the bond strength.		
Mixing	This product is available in cartridge form only. The cartridge should be used with a Manual Applicator Gun and a Static Mixer Nozzle. The Static Mixer Nozzle enables the material to be thoroughly mixed when dispensed, and thus can be applied directly to the surfaces to be bonded. Please note: Once the product goes beyond its working time the nozzle has to be thrown away and a new nozzle used for further dispensing.		
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 ensure good contact of the epoxy between the mating parts, clamping may optimize this part of the process. A small volume 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, shocked 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 1 year 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 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 are 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.bigagroup.com</u> / <u>www.devconeurope.com</u> alternatively for technical assistance please call +385 52 880 882 or send an e-mail to biga@biga.hr.		

