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## 10 Minute™ Epoxy (Black & Clear)

Description:	A rapid-curing, general purpose adhe	esive/encapsulant.				
Intended Use:	Industrial Use: Bonds metals, fabrics	s, ceramics, glass, wood, and concrete (in o	combinations)			
Features:	100% reactive, no solvents, Good Bonds metals, fabrics, wood, and					
Limitations:	Suitability of product is determined b	y the end user for their application and pro	cess.			
Typical Physical	Technical data should be considered representative or typical only and should not be used for specification purposes.					
Properties:	Cured 7 Days @ 75°F (24°C)	Typical Values	Standard Tests			
-	Adhesive Lap Shear (GBS)	2,400 psi (16.55 MPa)	Cured Hardness Shore ASTM D 2240			
	Dielectric Strength	800 volts/mil (31.5 kV/mm)	Dielectric Strength, volts/mil ASTM D 149			
	Hardness	75 Shore D	Tensile Lap Shear ASTM D1002			
	Impact Resistance	10 ft-lb/in <sup>2</sup> (21 kj/m <sup>2</sup> )				
	Service Temperature	-40°F - 200°F (-40°C - 93°C)				
	Solids by Volume	100%				
	Specific Volume	24.6 in <sup>3</sup> /lb. (0.889 cm <sup>3</sup> /g)				
	Tensile Elongation	5%				
	T-Peel	20-25 pli (3.5-4.4 N/mm)				
	Uncured Properties @ 72°F (23°C)					
	Color	Black or Clear				
	Working Time	10 minutes				
	Fixture Time	20 minues				
	Functional Cure	1.5 hours				
	Full Cure	12 hours				
	Mix Ratio by Volume	1:1				
	Mix Ratio by Weight	1:1				
	Mixed Density	9.4 lb/gal (1.13 g/cm <sup>3</sup> )				
	Mixed Viscosity	80,000-90,000 cP				
Surface Preparation:	Clean surface by solvent-wiping any deposits of heavy grease, oil, dirt, or other contaminants. Surface can also be cleaned with industrial cleaning equipment such as vapor 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.					
	Proper homogenous mixing of resin and hardener is essential for the curing and development of stated strengths.					
Mixing Instructions:	50 ML/400ML/490 ML CARTRIDGES 1. Attach cartridge to Mark V ™ [50ml] 400ml manual or pneumatic dispensing systems. 2. Open tip.					
	3. Burp cartridge by squeezing out some material until both sides are uniform (ensures no air bubbles are present during mixing).					
	<ol> <li>Attach mix nozzle to end of cartrid</li> <li>Apply to substrate.</li> </ol>	lge.				
Application Instructions:						
	For very large gaps: 1. Apply epoxy to both surfaces. 2. Spread to cover entire area OR m	ake a bead pattern to allow flow throughou	t the joint.			

	Let bonded assemblies	stand for recomm	led functional cure time prior to handling.			
	CAPABILITIES: Can withstand processing forces					
	Do not drop, shock load	0				
Storage:	Store in a cool, dry place.					
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Compliances:	None					
Chemical	Chemical resistance is calculated with a 7 day, room temp. cure (30 days immersion) @ 75°F(24°C)					
Resistance:	Acetic 10% (Dilute)	Poor	Hydrochloric 10% Poor			
	Ammonia	Poor	Isopropanol Poor			
	Corn Oil	Very Good	Mineral Spirits Excelle	nt		
	Cutting Oil	Very Good	Motor Oil Excelle	nt		
	Ethanol	Poor	Sodium Hydroxide 10% Poor			
	Gasoline (Unleaded)	Fair	Sodium Hypochlorite Very G	bod		
	Glycol/Antifreeze	Very Good	Sulfuric 10% Poor			
Warranty:	-	•	material found to be defective. Because the stora ity for the results obtained.	age, nanoling and application of this m		
Order	Item No. Package	<u>Size</u>				
	14255 50ml cart	ridge (Black)				
Information:	14251 50ml cart	ridge (Clear)				
Contacts:	www.itwpp.com					
	ITW Performance Poly	ners (US)	W Performance Polymers (EMEA)			
	30 Endicott Street		Bay 150, Shannon Industrial Estate			
	Danvers, MA 01923 USA TEL: 855 489 7262 FAX: 978 774 0516 Email: info@itwpp.com		Shannon, County Clare, Ireland V14 DF82 TEL: +353 61 771 500 FAX: +353 61 471 285			
			Email: customerservice.shannon@itwpp.com			
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			f an ITW PP product in a particular application.			
	performance, the data here is not intended to substitute end user testing. It is the end users sole responsible for evaluating an					
	product and determinin	g whether it is fit fo	particular purpose and suitable for user's design	, production, and final application.		
	Exclusion of Warranti	<b>ns</b> . As to the here	escribed materials and test results, there are no	warranties which extend beyond the		
			escribed materials and test results, there are no	•		
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