3M Universal Adhesive Clear 08217

Product Description	3M [™] Universal Adhesive Clear is a two-part epoxy based adhesive with a me viscosity used as a general purpose adhesive for metal, glass and plastic.		
Features	Clear Non-Yellowing		
	Bonds multiple substrates		
	200 ml Duo-Syringe Cartridge System		
	Note: The following technical information or typical only and should not be us	sed for specification purposes.	
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	or typical only and should not be us		
Typical Physical Properties	or typical only and should not be us Container	200 mL dual-syringe cartridge	
	or typical only and should not be us Container Base	200 mL dual-syringe cartridge Epoxy	
	or typical only and should not be us Container Base Density Ibs/Gallon (Appx.)	200 mL dual-syringe cartridge Epoxy 9.6 lbs/gal. Amber/	
	or typical only and should not be us Container Base Density Ibs/Gallon (Appx.) Color Viscosity (CPS) Brookfield	200 mL dual-syringe cartridge Epoxy 9.6 lbs/gal. Amber/ Clear	
	or typical only and should not be us Container Base Density Ibs/Gallon (Appx.) Color Viscosity (CPS) Brookfield Viscometer	200 mL dual-syringe cartridge Epoxy 9.6 lbs/gal. Amber/ Clear 8,000 - 15,000 cps	

Product Uses

3MTM Universal Adhesive Clear is a two-part epoxy adhesive designed to bond and seal plastics, primed metals, and glass. May also be used on industrial and architectural surfaces needing minor repairs. For best results use in conjunction with **3MTM Polyolefin Adhesion Promoter (PN 05907)** when repairing polyolefin type plastics.

Use with the following applicators: PN 08571 (manual), PN 08117 (manual), and PN 09930 (pneumatic).

3MTM Static Mixing Nozzle: PN 08193 (6/bag), PN 08194 (50/box).

For professional use only. Not intended for retail sale.

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Typical Performance Properties	Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes. The following times have been determined with ambient air temperature and substrate temperature @ 70°F and are considered typical values.				
					WORK TIME: 3 minutes
	MIX NOZZLE DWELL TIME: 2 minutes				
	CLAMP TIME 30 minutes CURE TIME: 1 hour				
					Lap Shear, SMC
	Lap Shear, FRP	830 PSI	ASTM D1002 / 2" per minute		
	Lap Shear, TPO	500 PSI	ASTM D1002 / 2" per minute		
	Lap Shear, PP	400 PSI	ASTM D1002 / 2" per minute		
	Lap Shear, TEO	320 PSI	ASTM D1002 / 2" per minute		

Overlap shear test method: Overlap shear test for adhesion determined in accordance with ASTM D1002. Sample dimensions 1" x 4" x .0111" with an overlap area of 1/2" x 1". Plastics cleaned with 3MTM General Purpose Adhesive Cleaner PN 08984 and DA sanded with P80 abrasive. Thermopolyolefin and Polypropylene plastics coated with 3MTM Polyolefin Adhesion Promoter PN 05907.

$\begin{array}{c} \mathbf{3M}^{\text{\tiny{TM}}} \ \mathbf{Universal} \ \mathbf{Adhesive} \ Clear \\ \mathbf{08217} \end{array}$

Directions for Use	SURFACE PREPARATION:							
	 Wash surface with soap and water to remove water soluble contaminants. Follow the soap and water wash with an appropriate VOC compliant product for removal of surface contaminants. 							
	 Prime the clean, abraded metal surfaces with a two - part primer (epoxy or urethane, NOT acid-etch). Sand plastic surfaces with a grade 80 abrasive. Primed metal surfaces should Be scuffed with a Scotch-BriteTM General Purpose Hand Pad (Ultrafine), (PN 07448) 							
						4. Remove dust from surface using clean, un-oiled compressed air and a clean, dry r		
	PRODUCT PREPARATION:							
	1. Insert cartridge into applicator gun.							
		2. Remove retaining collar and plug.						
	3. Extrude a small amount of product until both parts A and B dispense equally.							
	 4. Attach 3MTM Mixing Nozzle (PN 08193) to cartridge and lock in place with retaining collar. CAUTION: Before proceeding with next step have all parts accessible and ready for repair. 5. Dispense a small amount of material and discard. 							
				GENERAL REPAIR PROCESS:				
					 Apply adhesive to one of the parts and assemble the parts within 3 minutes. Clamp parts together for 30 minutes. 			
	NOTE: Allow to cure 1 hour before putting repaired part into service. CLEANUP Unmixed material may be cleaned from most surfaces with an appropriate VOC compliant product.							
					Applications	See "Product Uses" above.		
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Storage and Handling	HANDLING Avoid eye contact with vapors, mists, or spray. Avoid breathing of dust created by							

Avoid eye contact with vapors, mists, or spray. Avoid breathing of dust created by cutting, sanding, grinding or machining. Avoid breathing of vapors, mists or spray. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Avoid contact with oxidizing agents.

STORAGE

When stored at the recommended conditions in original, unopened containers, this product has a shelf life of 12 months from the date of manufacture. Store away from acids. Store away from oxidizing agents.

After use, leave mixing nozzle in place to seal the cartridge.

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Precautionary Information	Before using this product, please reference Product Label and/or Safety Data Sheet for Health and Safety Information. Note: Laws controlling the acceptable amounts of Volatile Organic Compounds (VOC's) vary by state, and in some cases by locality. For surface preparation and clean-up activities, consult federal, state and local regulations regarding use of products containing VOCs in your area.
Technical Information	The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.
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Automotive Aftermarket Division

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