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TECHNICAL DATA

J-B Weld

PRODUCT DESCRIPTION:

J-B Weld is the original "Cold Weld" steel reinforced two part epoxy adhesive that provides strong and lasting repairs to metal, aluminum and multiple surfaces found in the automotive, household, mechanical and industrial applications.





ITFM # 8280

SIZE: 2x5 oz.

PACKAGE: Boxed Tubes

ITEM # 8265S PACKAGE: Carded Tubes SIZE:2x1oz.

PROPERTIES	TEST METHOD	RESULT
Color (cured)		Dark Grey
Working time (70° F)		45 min. max
Set time		4-6 hours
Cure time		16-24 hours
Max temp (intermittent)		600° F
Max temp (continuous)		500° F
Tensile strength	ASTM CI,638	3960 psi
Adhesion strength	ASTM D297	3960 psi
Flexural strength	ASTM D790	3960 psi
Compressive strength	ASTM 0695	3960 psi
Shore D hardness	ASTM 02240	85 (1wk)
Shrinkage	ASTM 01779	0.0%
Flash Power (uncured)		7400

RECOMMENDEDFOR:

Bonding and filling various metals such as steel, aluminum, iron, copper, brass and bronze. Can also be used on non-metal surfaces such as concrete, most plastics, wood, tile, ceramic, fiberglass and many others.

TYPICAL APPLICATI ONS:

Can be used to repair many items including, machinery, automo tive components, tools, pipes, housings, outdoor equipment, off road equipment, appliances, fuel tanks, furniture, fixtures and household items.

DIRECTIONS:

- 1. Clean and Prepare surface area of all dirt, grease, oil, paint, rust or debris.
- 2. Mix equal parts of the Part A Hardener and the Part B steel resin. Be sure to mix equal parts thoroughly until color is uniform.
- 3. Apply with appropriate tool or spatula in an even coat, weld bead, or extruded shape as needed.
- 4. Let Product Set. Product will set for 20-25 minutes and cure in 15-24 hours (depending on the environment and termperature conditions present. Allow 4-6 hours minimum before putting object back into use or service.

PRODUCT FEATURES AN DBENEFITS:

- Superior Product Strength able to withstand significant sheer loads, shock loads, and impact resistance.
- Can be used on differing substrates and multiple surfaces
- High Heat Resistant up to 600 F intermittent temperatures
- Gasoline and Petroleum resistant
- Water Resistant when fully cured
- Won't shrink or crack
- · Can be tapped, filed, sanded and drilled when fully cured

NOT R ECOMMENDED FOR:

Polyethylene Plastic (PE), polypropylene Plastic (PPE), Nylon, and other highly flexible materials and non-porous surfaces. Not recommended for under water immersion.

SAFETY AND PRECAUTIONS:

Avoid product contact with eye, skin ord clothing. Use rubber gloves and eye protection. Use in an adequately ventilated area. Do not ingest. If contact with eyes occurs flush with water for 10-15 minutes and seek medical attention immediately. If contact with skin, wash with soap and water.

TECHNICAL DATA SHEET

J-B WELD

TEST	ASTM	RESU	JLTS			
Adhesion Strength		D297	1800 psi/126.6 kg/cm			
Flexural Strength		D790	7320 psi/514.7 kg/cm ²			
Tensile Lap Shear		D1002	1040 psi/73.1 kg/cm ² (R	1040 psi/73.1 kg/cm ² (Room Temp 25°C Steel)		
			1840 psi/129.4 kg/cm ² (1840 psi/129.4 kg/cm ² (3 hrs 400°F/204°C Steel)		
			671 psi/42.2 kg/cm ² (3 h	$671 \text{ psi}/42.2 \text{ kg/cm}^2$ (3 hrs 550°F/288°C Steel)		
			$1367 \text{ psi/96.1 kg/cm}^{-}(3)$	hrs 400	$1^{\circ}F/204^{\circ}C$ Alum)	
Chrinkana Valumatria Cha		D1770	500 psi/40.0 kg./ CIII (5	1115 330	7 F/200 C Alulli)	
Shrinkage volumetric Char Deflection Tomperature	nge	D1779				
		D648	102.5 F/39.2 C			
Tensile Strength		D638	3960 psi/2/8.4 kg/cm			
Volumo Docistivity			$\frac{16}{2}$ 2.16 × 10. ¹⁵ abm cm			
Volume Resistivity			0.70 × 10 ⁻¹⁵ ebre ere			
Surface Resistivity	-+	D 470	9.78 x 10 Onm Cm			
Water Soak Absorption Te	st	D470	24 hr Wgt Gain 0.07%			
Mix ratio by Weight						
Mix ratio by Volume						
Viscosity mixed (cps)			Approx. 250,000 cps			
Specific Volume			1.78			
Coverage per lb in sq. in 1/2	¹ " thick		65			
Cured Hardness (Shore D)		D224	85			
TEST METHOD			CHEMICAL SOLN	<u>EI</u>	FFECT	
Sulfuric Acid Spot Test (7 c	lays)		20% Sulfuric Acid	Noi	ne	
			30% Sulfuric Acid	No	ne	
			40% Sulfuric Acid	No	ne	
40-Day Immersion Test (D	543-67)		20% Sulfuric Acid	5.3	% Wgt Gain	
			30% Sulfuric Acid	5.2	% Wgt Gain	
			40% Suituric Acia	4.1	% wgi Gain	