9200

Structural Epoxy Adhesive

9200 is a toughened, 2-part epoxy adhesive, designed to create long-lasting load-bearing joints. It creates tough vibration-resistant bonds and is especially useful for joining dissimilar materials that will experience thermal cycling stresses or harsh environmental conditions.

This smooth, non-sagging, thixotropic adhesive is excellent for use on vertical surfaces, for gap filling, and for potting electronics enclosures with gaps where a non-thixotropic encapsulant would flow through.



Features & Benefits

Excellent bond strength to a wide variety of substrates

Extreme resistance to vibration and temperature cycles

Superior tensile, compressive and lap shear strength

Excellent chemical resistance

Excellent electrical insulating characteristics

Low shrinkage

RoHS 3 compliant

Cure Instructions

Allow to cure at room temperature for 48 hours, or cure in an oven at one of these time/temperature options:

Temperature	40 °C	65 °C	80 °C	100 °C
Time	16 h	1.5 h	1 h	15 min

Storage and Handling

Store between -10 and 27 ˚C in a dry area, away from sunlight (see SDS). To maximize shelf life, recap product firmly when not in use.

Available Packaging

Part #	Packaging	Net Vol.	Net Wt.
9200-25ML	Dual syringe	25 mL	31.3 g
9200-50ML	Dual cartridge	45 mL	56.3 g

Dispensing Accessories

Consult the table below for accessory selection. See the Dispensing Accessories Application Guide for usage instructions. 8MT-50-FT should only be used with a pneumatic dispenser.

Part #	Dispensing Gun	Static Mixer
9200-25ML	N/A	N/A
9200-50ML	8DG-50-1-1	8MT-50, 8MT-50FT

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Liquid Properties

Density	1.3 g/mL (Mixed) 1.3 g/mL (A) 1.3 g/mL (B)	ASTM D1475
Viscosity @ 25 ˚C	295 000 cP (A) 170 000 cP (B)	Brookfield Engineering labs Inc. IPCTM-65- Method 2.4.24.4
Working Time [a]	45 min	—
Set Time [a]	60 min	—
Mix Ratio	1:1 (Volume) 1:1 (Weight)	—
Shelf Life	3 y	—
Peak Exotherm [b]	26 °C	ASTM D2471

[a] Ambient temperature of 22 °C
[b] Based on a 250 g sample in a fixed container geometry.

Cured Properties

Color	Beige	—
Density	1.2 g/mL	Hydrostatic Weighing
Service Temperature Range	-40–150 ˚C	—
Breakdown Voltage	41 500 V	—
Dielectric Strength	503 V/mil	—
Resistivity	2.5 x 10^{13} Ω·cm	ASTM D257
Hardness	76 D	ASTM D2240
Tensile Strength	16 N/mm^2	ASTM D638
Compressive Strength	64 N/mm^2	ASTM D695
Lap Shear	20 N/mm^2 (Stainless steel) 22 N/mm^2 (Aluminum)	ASTM D1002
Glass Transition Temperature (T_g)	44 ˚C	ASTM E1545
Coefficient of Thermal Expansion (CTE)	95 ppm/˚C (Prior T_g) 215 ppm/˚C (After T_g)	ASTM E831
Thermal Conductivity @ 25 ˚C Specfic Heat Capacity @ 25 ˚C Thermal Diffusivity @ 25 ˚C	0.3 W/(m·K) 1.4 J/(g·K) 0.2 mm^2/s	ASTM E1461
Weight Loss @ 155 °C (600 hrs)	0.7 %	–

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Application Instructions

Read the product SDS for more detailed instructions before using this product.

Recommended Preparation

Clean the substrate with Isopropyl Alcohol, MG #824, so the surface is free of oils, dust, and other residues.

Syringe or Cartridge

1. Twist and remove the cap from the syringe or cartridge. Do not discard cap.
2. If nozzle is blocked, clean any hardened material on both the inside and outside using a needle and paper towel.
3. Dispense a small amount to ensure even flow of both parts. A manual or pneumatic dispensing gun is required for a 50 mL cartridge.
4. (Optional) Attach a static mixer.

   a. Dispense and discard 3 to 5 mL of the product to ensure a homogeneous mixture.

   b. After use, dispose of static mixer.
5. Without a static mixer, dispense material on a mixing surface or container, and thoroughly mix parts A and B together.
6. To stop the flow, pull back on the plunger.
7. Clean nozzle to prevent contamination and material buildup.
8. Re-place the cap on the cartridge or syringe or cartridge.

Disclaimer: This information is believed to be accurate. It is intended for professional end-users who have the skills required to evaluate and use the data properly. M.G. Chemicals Ltd. does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.

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