



Multi-Purpose Panel Adhesive

TECHNICAL DATA SHEET



Check local VOC regulations to ensure compliance of all products in your area.

DESCRIPTION

Multi-Purpose Panel Adhesive is a two-component epoxy for panel bonding of steel, aluminum, SMC and fiberglass.

FEATURES

- Dual-Mix Forever Warranty
- Long working time
- Excellent impact and peel strength
- Corrosion resistant
- Glass beads for consistent bond line thickness

SUITABLE SUBSTRATES

PROPERLY PREPPED (SEE PREPARATION SECTION)

- Steel
- Aluminum
- SMC
- Fiberglass
- Galvanized Steel

TYPICAL PROPERTIES

Part:	Product Name:	Color:	Container:
39747	Multi-Purpose Panel Adhesive	Black	7 oz. Cartridge

Working Time:	90 minutes @ 70°F (21° C)
Set Time:	4 hours @ 70°F (21° C)
Cure Time:	24 hours @ 70°F (21° C)
Coverage:	115" @ 3/8" diameter bead

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Always wear OSHA required (PPE) Personal Protection Equipment as outlined on the SDS and product label to ensure your safety.



PREPARATION

Bonding surfaces should be clean, dry and free of contamination. Dry-fit all panels before applying adhesive to ensure proper alignment and clearance.

Steel and Aluminum:

1. Clean surfaces to be bonded with **SEM Solve** or **XXX Universal Surface Cleaner**.
2. Grind each surface with 36-50 grit grinding disc at lower speed to maintain grinding marks. Do not grind at high speed.
3. Re-clean surfaces with **SEM Solve** or **XXX Universal Surface Cleaner** if necessary.

Note: Always use lint-free towels when cleaning surfaces to avoid lint and particle contamination.

SMC and Fiberglass:

1. Clean surfaces to be bonded with **SEM Solve** or **XXX Universal Surface Cleaner**.
2. Grind each surface with 36 grit grinding disc at lower speed to maintain grinding marks. Do not grind at high speed.
3. Re-clean surfaces with **SEM Solve** or **XXX Universal Surface Cleaner** if necessary. Panel must be completely dry before applying adhesive. Do not saturate exposed fibers. Note: Always use lint-free towels when cleaning surfaces to avoid lint and particle contamination.

MIXING

It is highly recommended that adhesives be dispensed through a static mixer. Once mixed, **Multi-Purpose Panel Adhesive** should achieve a uniform color. Heat build-up during and after mixing is normal.

Place cartridge into **UNIVERSAL MANUAL APPLICATOR** or **UNIVERSAL PNEUMATIC APPLICATOR**. Remove retaining nut and red insert. To maintain product quality, replace after use. Prior to installing static mixer, equalize cartridge by dispensing product until both parts flow equally. Install static mixer. Cut tip to desired application size. Dispense 2-3 inches of test material to make certain color is uniform prior to applying to job.



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STATIC MIXERS:

Part:	Product Name:	Container:
70011	Integral Nut Square Static Mixers	7 oz. cartridge 6 pack
70012	Integral Nut Square Static Mixers	7 oz. cartridge 50 pack

APPLICATION

Apply product to both bonding surfaces and tool with a spreader or acid brush covering all exposed bare metal. Use enough material to completely fill the joint when parts are clamped. Always follow step by step directions enclosed with cartridge. To assure maximum bond strength, surfaces must be mated within the adhesive's working time.

NOTE:

Multi-Purpose Panel Adhesive is intended for full panel replacement only. Partial panel replacements may show a bond line or halo due to techniques in workmanship and are not warranted.

IMPORTANT:

Always refer to OEM guidelines regarding the ability to use an adhesive during the repair process.

DAMPENING MATERIAL:

When replacing door skins, roof skins or quarter panels, **Flexible Urethane Foam**, **Rigid Urethane Foam** and **Panel Vibration Control Material** can be used to replace the OEM dampening material found between the panels and the structural members. Refer to product information for proper selection.

CURING

Parts should remain undisturbed during the interval of time between the material's working time and set time. After the set time is achieved, the material has reached handling strength and clamps or screws can be removed. Temperatures below 55°F (13°C) will slow the cure; above 85°F (29°C) will accelerate cure rate. To enhance cure time, heat to 120-140°F (49-60°C) for 1 hour. At 70°F (21°C), **Multi-Purpose Panel Adhesive** sets in 4 hours and fully cures in 24 hours.



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WELDING AND RIVETING

Multi-Purpose Panel Adhesive is versatile and can be used with traditional welding methods (MIG), resistance spot welding techniques (STRSW) and riveting while wet when following OEM recommendations. Remove excess adhesive prior to welding when using traditional MIG welding methods.

NOTE: Prior to welding apply **Zincweld Weld-Through Primer** on any areas where adhesive will not be present. Allow weld-thru primer to fully dry.

Cavity Wax:

If the OEM allows the use of cavity wax, apply **Rust Preventer Cavity Wax** internally, after paint, to achieve maximum corrosion protection.



CLEAN UP

It is important to clean up excess adhesive from the work area and application equipment before it cures. Use appropriate cleaning materials compliant with VOC regulations in your area. Keep containers tightly closed after use. **Multi-Purpose Panel Adhesive** is flammable when exposed.

STORAGE

Multi-Purpose Panel Adhesive should be stored in a cool dry place with adequate ventilation away from heat, sparks and flames. The shelf life for **Multi-Purpose Panel Adhesive** is 2 years when stored at 40-77°F (4-25°C). Exposure above room temperature will reduce shelf life.



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RELATED PRODUCTS

Part:	Product:	Size:
38371	SEM Solve	Gallon
38373	SEM Solve	Aerosol
38374	SEM Solve	Quart
77771	XXX Universal Surface Cleaner	Gallon
77774	XXX Universal Surface Cleaner	Quart
39357	Flexible Urethane Foam	Cartridge
39997	Rigid Urethane Foam	Cartridge
39977	Panel Vibration Control Material	Cartridge
40773	Zincweld Weld-Through Primer	Aerosol
39573	Rust Preventer Cavity Wax	Aerosol
71360	Rigid 360° Applicator	Kit
70011	Integral Nut Static Mixer	6 pack
70012	Integral Nut Static Mixer	50 pack
70039	Universal Pneumatic Applicator	Each
71119	Universal Manual Applicator	Each
SA25036	2" x 36-grit Quicklock Grinding Disc	25/box
SA25050	2" x 50-grit Quicklock Grinding Disc	25/box
SA35036	3" x 36-grit Quicklock Grinding Disc	25/box
SA35050	3" x 50-grit Quicklock Grinding Disc	25/box

Technical Consultation Service

Our Technical Staff is ready to assist you with any questions. You are invited to take advantage of our extensive experience, laboratory services and trained field service representatives. Call (800) 831-1122 for answers to your questions. Hours of operation are Monday through Thursday 8:00 am until 5:00 pm EST and on Friday 8:00 am until 4:30 pm EST.

Disclaimer:

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Users should review the Material Safety Data Sheet (MSDS) and product label for the material to determine possible health hazards, appropriate engineering controls and precautions to be observed in using the material. Copies of the MSDS and product label are available upon request.