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3M 5200

3M Marine Adhesive Sealant 5200 Instruction Manual

Model: 5200

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1. SAFETY INFORMATION

Always read and understand all safety information before using this product. Failure to do so may result in injury, sickness, death, or property damage.

1.1 General Safety Precautions

- Use in a well-ventilated area.
- Wear appropriate personal protective equipment (PPE), including gloves and eye protection.
- Avoid contact with skin and eyes. In case of contact, rinse immediately with plenty of water and seek medical advice.
- Keep out of reach of children and pets.
- Do not ingest. If swallowed, call a Poison Control Center or doctor immediately.
- Dispose of product and packaging in accordance with local regulations.

1.2 Proposition 65 Warning

This product may expose you to chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

(Information derived from product data indicating Proposition 65 warning)

2. PRODUCT OVERVIEW

The 3M Marine Adhesive Sealant 5200 is a high-performance polyurethane adhesive sealant designed for permanent bonding and sealing in marine environments. It forms watertight seals and offers strong adhesion to various marine substrates.

2.1 Key Features

- **Powerful Marine Sealant:** Permanent solution for bonding marine substrates like wood, fiberglass, and metal.
- **Versatile Applications:** Ideal for deck housings, hull fittings, porthole mounting, fiberglass transoms, and underside molding.
- **Water Resistance:** Resists saltwater and weathering both above and below the water line.
- **Flexible Bonds:** Elastomeric bond absorbs stress from vibration, swelling, shrinking, and shock.
- **Long Working Time:** Allows ample working time, achieving handling strength in 48 hours.

2.2 Product Components

The product typically includes:

- One tube of 3M Marine Adhesive Sealant 5200 (3 fl oz / 88 mL, Black).



Figure 2.1: 3M Marine Adhesive Sealant 5200 in its packaging. This image shows the black 3 fl oz tube of sealant, highlighting its use for through-hull fittings and its permanent bonding capabilities.

3. SETUP & SURFACE PREPARATION

Proper surface preparation is crucial for optimal adhesion and performance of the sealant.

3.1 Required Tools and Materials

- 3M Marine Adhesive Sealant 5200
- Applicator gun (if using cartridge format)
- Cleaning solvent (e.g., isopropyl alcohol, acetone)
- Clean rags or cloths
- Abrasive material (e.g., sandpaper) for roughening surfaces (if necessary)
- Masking tape (for neat application)
- Personal Protective Equipment (PPE): gloves, safety glasses.

3.2 Surface Preparation Steps

1. **Clean Surfaces:** Ensure all surfaces to be bonded are clean, dry, and free of oil, grease, wax, dirt, and old sealant. Use a suitable cleaning solvent if necessary.
2. **Roughen Surfaces:** For best adhesion, lightly abrade smooth, non-porous surfaces (e.g., fiberglass, metal) with fine-grit sandpaper. Wipe away any dust after abrading.
3. **Masking:** Apply masking tape along the edges of the area to be sealed to ensure a clean, straight sealant line.
4. **Temperature:** Apply in a well-ventilated area, ideally between 60°F (16°C) and 80°F (27°C).



Tough yet flexible polyurethane polymer is ideal for deck housings, hull fittings, porthole mounting, fiberglass transoms, and underside molding

Figure 3.1: Close-up of 3M Marine Adhesive Sealant 5200 being applied to a metal component, demonstrating the precise application of the tough yet flexible polyurethane polymer.

4. APPLICATION INSTRUCTIONS

Follow these steps for effective application of 3M Marine Adhesive Sealant 5200.

4.1 Application Procedure

- 1. Prepare Tube/Cartridge:** Cut the nozzle to the desired bead size. Puncture the inner seal of the tube or cartridge.
- 2. Apply Sealant:** Apply a continuous, even bead of sealant to one of the prepared surfaces. Ensure complete coverage of the bonding area.
- 3. Join Surfaces:** Bring the surfaces together immediately after applying the sealant. Apply firm, even pressure to ensure good contact and spread of the adhesive.
- 4. Tooling:** Smooth the sealant bead with a tool or gloved finger within the working time to achieve a neat finish and ensure proper contact.
- 5. Remove Masking Tape:** Carefully remove any masking tape before the sealant begins to skin over.



Engineered to resist saltwater and weathering both above and below the water line

Figure 4.1: A gloved hand applying 3M Marine Adhesive Sealant 5200 to a boat component, illustrating the process of creating a strong, flexible bond.

4.2 Curing Time

- **Handling Strength:** Achieves handling strength in approximately 48 hours.
- **Full Cure:** Full cure typically takes 5-7 days, depending on temperature and humidity. Allow sufficient time for full cure before exposing the bonded area to significant stress or water immersion.

5. CARE & STORAGE

Proper care and storage will extend the shelf life of the product and ensure its effectiveness for future use.

5.1 Storage

- Store in a cool, dry place away from direct sunlight.
- Keep container tightly sealed when not in use.
- Avoid freezing temperatures.

5.2 Cleaning Tools

Clean tools and excess uncured sealant immediately with a suitable solvent (e.g., mineral spirits, acetone). Cured sealant is very difficult to remove and may require mechanical abrasion.

6. TROUBLESHOOTING

Common issues and their solutions.

Problem	Possible Cause	Solution
Poor Adhesion	Improper surface preparation (dirty, oily, or wet surfaces); insufficient pressure during bonding; incorrect temperature during application.	Ensure surfaces are thoroughly cleaned and dry. Lightly abrade smooth surfaces. Apply firm, even pressure when joining parts. Apply within recommended temperature range.
Sealant Not Curing	Low temperature; low humidity; expired product.	Ensure application is within recommended temperature and humidity ranges. Check product expiry date. Allow adequate time for full cure.
Uneven Bead	Incorrect nozzle cut; inconsistent application speed or pressure.	Cut nozzle to appropriate size. Practice applying on scrap material to achieve consistent bead. Use masking tape for cleaner lines.

7. SPECIFICATIONS

Attribute	Detail
Product Name	3M Marine Adhesive Sealant 5200
Model Number	5200
Brand	3M
Color (Current Variant)	Black
Size (Current Variant)	3 fl oz (88 mL)
Material	Polyurethane (Sealant), Plastic (Tube)
Item Weight	4.8 ounces
Product Dimensions	1.4 x 4.9 x 8.8 inches
Handling Strength	48 hours
Full Cure Time	5-7 days
Recommended Applications	Fiberglass deck to hull, Through hull fittings, Wood to fiberglass, Portholes and deck fittings, Motors on fiberglass transoms, Under moldings, Hull seams above and below water line, Deck housing.

8. WARRANTY & SUPPORT

8.1 Legal Disclaimer

3M industrial and occupational products are intended, labeled, and packaged for sale to trained industrial and occupational customers for workplace use. Unless specifically stated otherwise on the applicable product packaging or literature, these products are not intended, labeled, or packaged for sale to or use by consumers (e.g., for home, personal, primary or secondary school, recreational/sporting, or other uses not described in the applicable product packaging or literature), and must be selected and used in compliance with applicable health and safety regulations and standards (e.g., U.S. OSHA, ANSI), as well as all product literature, user instructions, warnings, and other limitations, and the user must take any action required under any recall, field action, or other product use notice. Misuse of 3M industrial and occupational products may result in injury, sickness, death, or property damage. For help with product selection and use, consult your on-site safety professional, industrial hygienist, or other subject matter expert. For additional product information, visit www.3M.com.

8.2 Customer Support

For further assistance or inquiries, please visit the official 3M website or contact their customer support channels as provided on their website or product packaging.

You can also visit the 3M Store on Amazon:[3M Industrial Store](https://www.amazon.com/3M-Industrial-Store)

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