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3M Marine Adhesive Sealant 4000 UV Instruction Manual

Model: 14316

Brand: 3M



1. PRODUCT OVERVIEW

The 3M Marine Adhesive Sealant 4000 UV is a versatile, medium-strength adhesive sealant designed for marine environments. It offers excellent holding power, remains flexible, and is resistant to UV degradation, making it suitable for above-waterline applications.

Key Features

- Bonds and seals a variety of substrates, including fiberglass, gelcoat, wood, and metals.
- Provides excellent holding power with extreme flexibility.
- Ideal for hardware, hatch frames, portholes, railing, and navigation lights.
- UV resistant for durability in sun exposure.
- Cures in approximately 24 hours.



Figure 1: 3M Marine Adhesive Sealant 4000 UV cartridge. This image displays the product packaging, highlighting its brand, model, and key features.

2. PREPARATION AND APPLICATION

2.1 Surface Preparation

For optimal adhesion, surfaces must be clean, dry, and free of oil, grease, wax, and loose particles. Lightly abrade smooth surfaces with fine sandpaper (e.g., 180-220 grit) to improve mechanical adhesion. Clean abraded surfaces with an appropriate solvent, such as isopropyl alcohol or 3M General Purpose Adhesive Cleaner, and allow to dry completely.

2.2 Application Instructions

1. Ensure the sealant cartridge is at room temperature (65-75°F / 18-24°C) for best flow.
2. Cut the nozzle to the desired bead size.
3. Insert the cartridge into a standard caulking gun.
4. Apply a continuous, even bead of sealant to one of the prepared surfaces.
5. Assemble parts within 10 minutes of application. Apply sufficient pressure to ensure good contact and spread of the sealant.
6. Tool the sealant bead immediately after application to achieve a smooth finish and ensure proper contact with the substrate.

Curing Time: The sealant typically skins over in 30-60 minutes and cures to a tack-free state in approximately 24 hours. Full cure strength is achieved in 3-5 days, depending on temperature and humidity.

3. USAGE GUIDELINES

3.1 Bonding and Sealing

3M Marine Adhesive Sealant 4000 UV is suitable for bonding and sealing applications where a medium-strength, flexible, and UV-resistant bond is required. It is particularly effective for sealing deck hardware, through-hull fittings, and other components exposed to marine conditions and sunlight.

3.2 UV Resistance

This sealant is formulated with enhanced UV resistance to prevent degradation and yellowing when exposed to sunlight, ensuring long-term performance and aesthetic integrity in outdoor marine applications.

4. MAINTENANCE AND STORAGE

4.1 Cleaning

Uncured sealant can be cleaned with a solvent such as mineral spirits or acetone. Cured sealant must be removed mechanically, typically by scraping or sanding. Always test solvents on an inconspicuous area first to ensure they do not damage the substrate.

4.2 Storage Recommendations

Store unused sealant in its original, tightly sealed container in a cool, dry place away from direct sunlight and extreme temperatures. Proper storage helps maintain product quality and extends shelf life.

5. TROUBLESHOOTING

5.1 Sealant Does Not Cure

- **Insufficient Moisture:** This sealant cures by reacting with atmospheric moisture. In very dry environments, curing may be slow. Ensure adequate ventilation.
- **Improper Storage:** If the product was stored improperly (e.g., exposed to high heat or humidity, or past its shelf life), it may not cure correctly. Always check the expiration date and storage conditions.
- **Contamination:** Presence of oils, greases, or other contaminants on the surface or mixed with the sealant can inhibit curing. Ensure thorough surface preparation.
- **Excessive Thickness:** Very thick applications, especially in areas with limited air exposure, can slow down the curing process.

If the sealant fails to cure after following all instructions, remove the uncured material and reapply with a fresh cartridge, ensuring proper surface preparation and environmental conditions.

6. TECHNICAL SPECIFICATIONS

Specification	Value
Material	Rubber
Brand	3M
Style	Compact
Item Weight	16 ounces
Dimensions (L x W x H)	10 x 3 x 2 inches
Water Resistance Level	Waterproof
Item Form	Paste
UPC	076308143169
Unit Count	1.0 Count
Number of Items	1
Color	BLACK
Surface Recommendation	Marine surfaces
Manufacturer	3M
Part Number	14316
Batteries Included	No
Batteries Required	No

7. WARRANTY AND SUPPORT

For information regarding product warranty, technical support, or further assistance, please refer to the official 3M website or contact 3M customer service directly. Keep your purchase receipt as proof of purchase.

You can visit the official 3M store for more product information: [3M Official Store](#)