

3M 03625

3M Wrap and Repair Silicone Tape

INSTRUCTION MANUAL

Product Overview

The 3M Wrap and Repair Silicone Tape (Model 03625) is an innovative, adhesive-free tape engineered to create permanent, air and watertight seals. This self-fusing silicone tape is highly versatile, designed for a wide range of repair applications including hoses, electrical wiring, plumbing, and various tools. Its unique properties allow it to bond securely to itself, forming a durable and flexible barrier without the need for traditional adhesives or specialized tools.

It is built to withstand challenging conditions, offering resistance to extreme temperatures ranging from -85°F to 500°F, as well as friction and UV exposure. The tape's clear appearance ensures repairs are strong yet discreet.

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WRAP AND REPAIR SILICONE TAPE

Adhesive-free tape bonds permanently
Creates a water and air tight seal



Image: Front packaging of 3M Wrap and Repair Silicone Tape, showing the product and its key features.

Safety Information

- Always ensure the repair area is clean and free of debris before application.
- Keep out of reach of children.
- Do not use on surfaces that exceed the tape's temperature limits.
- While the tape is self-fusing, avoid direct contact with open flames or extreme heat sources during application.

Product Components

The 3M Wrap and Repair Silicone Tape package includes:

- 1 roll of 3M Wrap & Repair Silicone Tape, 1 inch x 2 yards (6 feet)

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Net: 1 Roll - 1 in x 2 yd (2.5 cm x 1.82 m)

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Image: A roll of 3M Wrap and Repair Silicone Tape, demonstrating its compact size and clear material.

Setup and Preparation

Proper preparation is crucial for an effective and lasting repair.

1. **Clean the Surface:** Thoroughly clean the surface to be repaired. Ensure it is dry and free of any dirt, grease, oil, or loose debris. A clean surface allows the tape to fuse properly to itself.
2. **Identify the Repair Area:** Clearly identify the leak, hole, or area requiring reinforcement.

Repair hose, tool, pipe, or electrical surfaces with this super stretchy, highly conformable, adhesive-free tape that fuses strongly to itself and can withstand extreme temperatures from -85° F to 500° F. Designed to be heat, friction, and UV resistant, this versatile tape meets UL 510 standards and can be used for automotive, marine, home, and recreational repairs.

DIRECTIONS FOR USE:

1. Prepare and clean the surface to be wrapped.
2. Peel back the liner and wrap the necessary amount of tape around the repair surface stretching the tape and overlapping by half the width.
3. Once the surface is wrapped, overlap the last wrap fully to ensure a good seal.

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3M Automotive Aftermarket Division

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Image: Back of the 3M Wrap and Repair Silicone Tape packaging, showing detailed directions for use and warranty information.

Operating Instructions (Application)

Follow these steps for optimal application and a secure seal:

1. **Peel Back Liner:** Begin by peeling back a small section of the protective liner from the tape. The tape is adhesive-free and bonds only to itself.
2. **Start Wrapping:** Place the end of the tape onto the clean surface, starting approximately one inch away from the beginning of the area to be repaired.
3. **Stretch and Wrap:** While wrapping, stretch the tape to approximately twice its original length. This stretching activates the self-fusing properties. Wrap the tape tightly around the repair area, overlapping each wrap by at least half the width of the tape. Continue wrapping until you have covered the entire repair area, extending at least one inch past the end of the damage.
4. **Secure the End:** Once the desired area is covered, ensure the final wrap is pulled taut and pressed firmly against the previous layer to ensure a good seal. The tape will fuse to itself, creating a permanent, air and watertight bond.

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Image: Demonstration of 3M Wrap and Repair Silicone Tape being applied to a pipe, showing the stretching and overlapping technique.

Maintenance and Durability

The 3M Wrap and Repair Silicone Tape is designed for long-term performance and requires no specific maintenance after application. Its self-fusing nature creates a durable, permanent bond that is resistant to various environmental factors:

- Temperature Resistance:** Withstands extreme temperatures from -85°F to 500°F.
- Weatherability:** Highly resistant to UV radiation and friction.
- Waterproof:** Forms a complete watertight seal.
- Flexibility:** Remains flexible and conformable, adapting to various shapes and movements of the repaired object.

Regular inspection of the repaired area is recommended, especially in high-stress applications, to ensure the integrity of the seal over time.

Troubleshooting

While the 3M Wrap and Repair Silicone Tape is highly effective, some common issues may arise:

Problem	Possible Cause	Solution
Tape does not bond or leaks persist.	Insufficient stretching during application; surface not clean; tape not overlapped enough; unsuitable surface (e.g., highly corrugated).	Ensure tape is stretched to twice its length. Clean surface thoroughly. Overlap each wrap by at least half the tape's width. For highly corrugated surfaces, multiple layers or alternative solutions may be required.
Tape feels loose after application.	Not enough tension applied during wrapping.	Rewrap the area, ensuring consistent and firm tension throughout the application process.
Tape tears during application.	Overstretching the tape beyond its elastic limit.	Reduce the amount of stretch. The tape should be stretched to approximately twice its length, not to its breaking point.

Specifications

Brand: 3M

Model: 03625

Material: Self-fusing silicone

Color: Clear

Size: 1 inch x 6 feet (1 in x 2 yd)

Water Resistance Level: Waterproof

Tensile Strength: 700 PSI

Temperature Range: -85°F to 500°F

Special Feature: Strong, highly conformable, adhesive-free

Warranty and Support

3M products are manufactured to high standards. For specific warranty information and limited remedy details, please refer to the product packaging or contact 3M directly. Generally, 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. **3M MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES OR CONDITIONS, INCLUDING ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

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For further assistance or inquiries, you may contact:

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Phone: 1-877-MMM-CARS (666-2277)

Website: www.3MAuto.com

Note: Information regarding warranty and contact details is based on the product packaging (UPC: 0051131036253).

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