HILTI HDM 500

Hilti HDM 500 Manual Adhesive Dispenser

Model: HDM 500 (3498314)

Brand: HILTI

1. INTRODUCTION

This manual provides essential instructions for the safe and effective use of the Hilti HDM 500 Manual Adhesive Dispenser. Designed for robust performance in demanding jobsite conditions, this dispenser is engineered for precise application of chemical anchors and other two-component adhesives. Please read this manual thoroughly before operation and retain it for future reference.

2. SAFETY INFORMATION

Always adhere to general safety practices when operating power tools and handling chemical products. Failure to follow these instructions may result in injury or damage to the product.

- **Read Adhesive Instructions:** Always consult the specific safety data sheet (SDS) and application instructions provided with your adhesive cartridges.
- **Personal Protective Equipment (PPE):** Wear appropriate PPE, including safety glasses, gloves, and respiratory protection, as recommended by the adhesive manufacturer.
- **Ventilation:** Ensure adequate ventilation in the work area to prevent inhalation of fumes.
- **Secure Workpiece:** Ensure the workpiece is stable and secured before applying adhesive.
- **Keep Clear:** Keep hands and body parts clear of moving parts and the dispensing nozzle.

3. PRODUCT OVERVIEW

The Hilti HDM 500 is a manual dispenser designed for two-component adhesive cartridges. It features a durable construction and is well-balanced for improved handling during application. The dispenser accommodates different cartridge sizes through interchangeable cartridge holders.

The Hilti HDM 500 manual adhesive dispenser, showcasing its robust design and the two interchangeable cartridge holders (red and black) for different adhesive types.

The dispenser set typically includes the HDM 500 gun and at least one cartridge holder (e.g., black for HIT-CB 500 cartridges). Additional cartridge holders (such as the red one) can be used for other compatible adhesive types.

A close-up view of the Hilti HDM 500 dispenser with the red cartridge holder in place, ready for use with compatible adhesive cartridges.

The Hilti HDM 500 dispenser featuring the black cartridge holder, designed for specific adhesive cartridge sizes.

4. SETUP

Proper setup ensures optimal performance and safety. Follow these steps to prepare your Hilti HDM 500 dispenser for use:

1. **Select Cartridge Holder:** Choose the appropriate cartridge holder (e.g., black or red) that matches the adhesive cartridge you intend to use.
2. **Retract Plunger:** Pull back the plunger arm of the dispenser completely. This is typically done by pressing a release button or lever near the handle and pulling the rod back.
3. **Open Dispenser:** Press the button located on the top of the dispenser to release and pivot the front part of the dispenser open. This allows access to the cartridge chamber.
4. **Insert Cartridge Holder:** Place the selected cartridge holder into the dispenser, ensuring it clicks securely into position.
5. **Insert Adhesive Cartridge:** Carefully slide the adhesive cartridge into the installed cartridge holder until it is fully seated.
6. **Attach Mixing Nozzle:** Remove the cap from the adhesive cartridge and securely screw on the static mixing nozzle provided with the adhesive. Ensure it is tightened properly to prevent leaks and ensure proper mixing.

5. OPERATING INSTRUCTIONS

Once the dispenser is set up with the adhesive cartridge and mixing nozzle, you can begin the application process:

1. **Purge Initial Material:** Before applying to the actual workpiece, dispense a small amount of adhesive onto a scrap surface until a consistent, uniformly mixed color is observed. This ensures both components are properly mixed.
2. **Apply Adhesive:** Position the mixing nozzle into the hole or area where the adhesive is to be applied. Squeeze the trigger repeatedly to dispense the adhesive. Maintain steady pressure for a continuous flow.
3. **Control Flow:** The amount of adhesive dispensed is controlled by the trigger. Release the trigger to stop the flow.
4. **Follow Adhesive Curing Times:** Refer to the adhesive manufacturer's instructions for specific curing times and working temperatures.

6. MAINTENANCE

Regular maintenance will prolong the life of your Hilti HDM 500 dispenser:

- **Cleaning:** After each use, remove the adhesive cartridge and mixing nozzle. Clean any excess adhesive from the dispenser body, especially around the plunger and cartridge holder, using a suitable solvent if necessary (check adhesive manufacturer's recommendations).
- **Inspection:** Periodically inspect the dispenser for any signs of wear, damage, or loose components. Ensure the plunger mechanism operates smoothly.
- **Storage:** Store the dispenser in a clean, dry place, away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

If you encounter issues with your Hilti HDM 500 dispenser, consider the following:

- **Difficulty Dispensing:** Ensure the plunger arm is fully retracted before inserting the cartridge. Check that the cartridge is correctly seated in the holder and the mixing nozzle is securely attached and not clogged.
- **Cartridge Not Fitting:** Verify that you are using the correct cartridge holder for your specific adhesive cartridge size.
- **Uneven Mixing:** Ensure the mixing nozzle is properly attached and that the initial purge of adhesive was sufficient to achieve a consistent mix.

For persistent issues, contact Hilti customer support or a qualified service technician.

8. SPECIFICATIONS

Specification	Detail
Model Number	3498314 (HDM 500)
Brand	HILTI
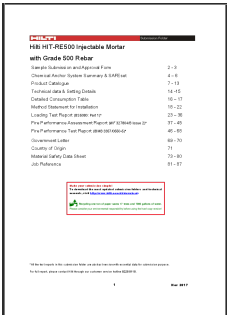
Operation Mode	Manual
Power Source	Manual
Core Size	500mm
Package Dimensions	16.3 x 8.98 x 5.24 inches
Item Weight	5.42 Pounds

9. WARRANTY AND SUPPORT

This product is a genuine HILTI item. However, as a parallel import, it may differ in included accessories, packaging design, user manuals, and warranty coverage compared to products officially distributed in the United States. Consequently, this product may not be eligible for direct manufacturer warranty coverage or customer support within the United States.

For support inquiries, please refer to the seller or distributor from whom the product was purchased.

Related Documents - HDM 500

[Hilti HIT-RE500 Injectable Mortar with Grade 500 Rebar: Technical Data and Application Guide](#)
Comprehensive technical document for Hilti HIT-RE500 injectable mortar with Grade 500 rebar, covering product specifications, application methods, safety data, and performance reports for construction professionals.

[Hilti HIT-HY 170: Universal Adhesive Anchoring System](#)
Discover the Hilti HIT-HY 170, a high-performance universal adhesive anchoring system designed for reliable and versatile fixing in concrete and various masonry types. Learn about its applications, safety, and technical specifications.

[Hilti HIT-HY 200-A V3 Adhesive Anchoring System Operating Instructions](#)
Comprehensive operating instructions and technical specifications for the Hilti HIT-HY 200-A V3 adhesive anchoring system, detailing installation, safety precautions, and product usage across multiple languages.

[Hilti Anchor Systems Catalog](#)

A comprehensive guide to Hilti's anchor systems, detailing adhesive and mechanical anchors, their applications, features, and product approvals. Includes information on Hilti's design software and installation best practices.

[Hilti HIT-RE 500 V3 1400 Jumbo Adhesive Anchoring System Installation Manual](#)

Official installation manual for the Hilti HIT-RE 500 V3 1400 Jumbo adhesive anchoring system. Includes detailed instructions, safety warnings, technical specifications, and application guidelines for professional use in concrete.

[Hilti HIT-HY 200-A V3 Operating Instructions and Technical Data](#)

Comprehensive operating instructions and technical data for the Hilti HIT-HY 200-A V3 adhesive mortar system, detailing application, safety, and performance specifications for concrete anchoring.