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HILTI HIT-1

Hilti HIT-1 Injection Mortar User Manual

Brand: HILTI | Model: HIT-1

1. INTRODUCTION

The Hilti HIT-1 is a fast-hardening, styrene-free injection mortar designed for universal use in masonry and non-cracked concrete. This product is suitable for a wide range of mounting applications in light and medium load ranges, providing a strong and reliable bond.

It is engineered for ease of use, fitting into standard squeezing devices and cartridge guns, and includes mixers for immediate application. The HIT-1 mortar is ideal for both professional and occasional use, offering quick setting properties for efficient work.





Figure 1: Hilti HIT-1 Injection Mortar cartridge with mixer nozzle.

2. SETUP AND PREPARATION

Proper preparation is crucial for optimal performance of the Hilti HIT-1 injection mortar. Follow these steps to prepare the cartridge for use:

1. **Inspect the Cartridge:** Ensure the cartridge is undamaged and the contents are not expired.
2. **Prepare the Application Tool:** The Hilti HIT-1 cartridge is designed to fit into standard cartridge presses, including those used for silicone and other hard cartridges. Insert the cartridge securely into your chosen extrusion gun.

3. **Attach the Mixer Nozzle:** A 2-component mixer nozzle is included with the cartridge. Screw or attach this mixer tip firmly onto the cartridge outlet. This nozzle ensures proper mixing of the two components as the mortar is dispensed.





Figure 2a: Hilti HIT-1 cartridge with cap removed, ready for nozzle attachment.



Figure 2b: Hilti HIT-1 cartridge with mixer nozzle attached.

Before applying the mortar into the anchor hole, dispense a small amount onto a scrap surface until a consistent color is achieved, indicating proper mixing of the two components.

3. OPERATING INSTRUCTIONS

The Hilti HIT-1 injection mortar is versatile and can be used for various applications in concrete and masonry, whether wet or dry. Its fast-hardening properties make it efficient for quick installations.

3.1. Application Areas

- **Anchoring:** Ideal for attaching threaded rods, heavy-duty anchors, adhesive anchors, dowels, net dowels, and injection dowels.
- **General Fixings:** Suitable for light and medium load range applications.
- **Common Uses:** Excellent for securing fence and railing posts, gates, window grids, wall cabinets, bathroom fittings, air conditioners, and lighting fixtures.
- **Repair:** Can be used as liquid dowels, quick cement, quick concrete, concrete glue, or repair mortar for both indoor and outdoor environments.

3.2. Dispensing and Curing

Once the mixer nozzle is attached and the initial unmixed material is purged, apply the mortar directly into the pre-drilled hole. Ensure the hole is clean and free of dust and debris for optimal adhesion. The mortar hardens extremely quickly, providing a strong and reliable bond. Refer to the product's technical data sheet for specific curing times based on temperature and application type.





Figure 3: Detailed view of the 2-component mixer nozzle.

4. MAINTENANCE

The Hilti HIT-1 injection mortar is a single-use or multi-use product depending on the application and storage conditions after opening. No specific maintenance is required for the mortar itself once applied and cured.

- **Storage:** Store unused cartridges in a cool, dry place, away from direct sunlight and extreme temperatures. Ensure the cap is securely replaced if the cartridge is not fully used in one application.
- **Cleaning:** Clean tools and surfaces immediately after use with appropriate solvents before the mortar hardens. Once cured, the mortar is very difficult to remove.

5. TROUBLESHOOTING

While the Hilti HIT-1 is designed for reliable performance, here are some common considerations:

- **Mortar Not Mixing Properly:** Ensure the mixer nozzle is correctly attached and that the initial amount of mortar (typically the first few inches) has been purged until a consistent color is observed. If the issue persists, replace the mixer nozzle.
- **Poor Adhesion:** This is often due to improperly cleaned holes. Ensure all dust and debris are removed from the drilled hole before injecting the mortar. Also, verify that the substrate material is suitable for the HIT-1

mortar.

- **Difficulty Dispensing:** Check if the cartridge is correctly seated in the extrusion gun. If the mortar is too cold, it may become more viscous; allow it to warm up to room temperature.

For issues not covered here, please refer to the official Hilti technical documentation or contact Hilti customer support.

6. SPECIFICATIONS

Attribute	Detail
Manufacturer	Hilti
Part Number	100005
Item Model Number	HIT-1
Item Weight	1.21 pounds
Product Dimensions	10.63 x 3.54 x 3.54 inches
Color	Red
Material	Silicone
Item Package Quantity	1
Special Features	Strong adhesion, fast hardening
Usage	Attaching, filling, gluing, patching
Included Components	Plastic tin (cartridge), mixer nozzle
ASIN	B077YVFSKJ
UPC/EAN	7613024098255

7. WARRANTY AND SUPPORT

Specific warranty details for the Hilti HIT-1 injection mortar are not provided in this manual. For information regarding product warranty, technical support, or any other inquiries, please contact Hilti directly through their official website or customer service channels.

Hilti is known for its high-quality installation systems and customer support. You can find contact information and additional resources on the official Hilti website.

Official Hilti Website: www.hilti.com



