

HILTI 3511065

HILTI 3511065 Adh ANC HY 100 Anchor System User Manual

Model: 3511065

1. INTRODUCTION

This manual provides essential information for the safe and effective use of the HILTI 3511065 Adh ANC HY 100 Anchor System. Please read these instructions carefully before installation and operation.

The HILTI Adh ANC HY 100 is a high-performance adhesive anchor system designed for various fastening applications in concrete and masonry. It includes the HY 100 adhesive and is typically used with the HDE 500 dispenser tool.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions may result in serious injury or death.

- Always wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and respiratory protection, especially when handling chemical components.
- Ensure adequate ventilation in the work area.
- Keep out of reach of children.
- Refer to the Safety Data Sheet (SDS) for detailed information on chemical components.
- Do not ingest. In case of contact with skin or eyes, rinse immediately with plenty of water and seek medical advice.

3. COMPONENTS

The HILTI 3511065 Adh ANC HY 100 Anchor System typically includes the following components:

- HILTI HY 100 Adhesive Cartridge (16.9oz/500ml)
- Mixing Nozzles (2MC)
- HDE 500 Dispenser Tool (sold separately or as part of a kit)

- Anchor Rods or Rebar (not included, selected based on application)



Figure 1: HILTI HY 100 Adhesive Cartridge and HDE 500 Dispenser Tool. This image shows the adhesive cartridge and the tool used for dispensing it, essential components of the anchor system.

4. SETUP

1. **Prepare the Substrate:** Drill a hole of the specified diameter and depth according to the anchor rod size and application requirements. Ensure the hole is clean, dry, and free of dust and debris. Use a brush and compressed air to thoroughly clean the drilled hole.
2. **Prepare the Adhesive Cartridge:** Remove the cap from the HY 100 adhesive cartridge. Screw a new mixing nozzle firmly onto the cartridge.
3. **Load into Dispenser:** Insert the prepared adhesive cartridge into the HDE 500 dispenser tool.
4. **Dispense Initial Material:** Before injecting into the hole, dispense a small amount of adhesive onto a piece of cardboard or waste material until a consistent, uniformly mixed color is achieved. This ensures proper mixing of the two-component adhesive.

5. OPERATING INSTRUCTIONS

1. **Inject Adhesive:** Insert the mixing nozzle to the bottom of the drilled hole. Begin dispensing the adhesive while slowly withdrawing the nozzle, ensuring the hole is filled from the bottom up to approximately 2/3 full. Avoid trapping air.
2. **Insert Anchor Element:** Immediately insert the anchor rod or rebar into the adhesive-filled hole with a slight twisting motion until it reaches the bottom.
3. **Curing Time:** Observe the specified curing time (working time and full curing time) provided in the product technical data sheet, which varies based on ambient temperature. Do not load the anchor until full curing is achieved.
4. **Clean Up:** Clean any excess adhesive from the surface before it cures.

6. MAINTENANCE

- **Dispenser Tool:** After use, clean the HDE 500 dispenser tool thoroughly, especially the plunger and cartridge holder, to prevent adhesive buildup.
- **Storage:** Store unused adhesive cartridges in a cool, dry place, away from direct sunlight and extreme temperatures. Ensure the cap is securely replaced on partially used cartridges (if applicable,

though HY 100 is often single-use once mixed).

- **Disposal:** Dispose of used cartridges and mixing nozzles according to local environmental regulations.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Adhesive not mixing properly (streaky color)	Insufficient initial dispensing; clogged nozzle	Dispense more material until uniform color is achieved. Replace nozzle if clogged.
Anchor rod not fully seating	Hole too shallow; too much adhesive	Ensure correct hole depth. Do not overfill the hole (fill 2/3).
Adhesive cures too quickly/slowly	Incorrect ambient temperature	Refer to technical data sheet for temperature-dependent curing times. Adjust work pace accordingly.

8. SPECIFICATIONS

- **Model:** 3511065
- **Adhesive Type:** HY 100 (Hybrid Mortar)
- **Cartridge Volume:** 16.9 oz / 500 ml
- **Dispenser Tool Compatibility:** HDE 500
- **Application Temperature:** Refer to product technical data sheet for specific ranges.
- **Curing Time:** Varies with temperature; refer to technical data sheet.

9. WARRANTY AND SUPPORT

For warranty information and technical support, please contact HILTI directly.

HILTI Customer Service:

Website: www.hilti.com

Contact Information: Refer to the official HILTI website for local contact numbers and support options.