

fischer 518820

Fischer Reaction Cartridge RSB 10 Mini (Model 518820) Instruction Manual

Your guide to safe and effective use

1. INTRODUCTION AND PRODUCT OVERVIEW

The Fischer Reaction Cartridge RSB 10 Mini is a high-performance, styrene-free vinyl ester hybrid mortar system. It is engineered for secure anchoring in both uncracked and cracked concrete, serving as an integral component of the Fischer Superbond System. This cartridge is designed for use with Fischer anchor rods (RG M) manufactured from galvanized steel, stainless steel, or highly corrosion-resistant steel. The system facilitates reliable fastening for demanding applications such as heavy-duty steel constructions, sound insulation walls, and high shelving units.

Key Features:

- Achieves higher load levels through the use of two mortar cartridges, optimizing attachment points.
- Ideal for applications involving filled boreholes.
- Suitable for overhead installations.
- Economical to use due to pre-portioned units.
- Workable in temperatures down to -30 °C.



Image 1: The Fischer Reaction Cartridge RSB 10 Mini, showcasing its compact design and packaging.

2. SAFETY INSTRUCTIONS

Adherence to safety precautions is paramount when handling chemical products. Please read and understand all safety information before use.

- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including safety glasses, chemical-resistant gloves, and respiratory protection, to prevent exposure to the mortar components.
- **Ventilation:** Ensure the work area is well-ventilated to minimize inhalation of fumes.
- **Skin and Eye Contact:** Avoid direct contact with skin and eyes. In case of contact, immediately rinse the affected area with plenty of clean water for several minutes and seek medical advice.
- **Ingestion:** Do not ingest. If swallowed, do not induce vomiting. Seek immediate medical attention.
- **Storage:** Store cartridges in their original packaging in a cool, dry, and dark place, away from direct sunlight and extreme temperatures. Keep out of reach of children and pets.
- **Disposal:** Dispose of used or expired cartridges and packaging according to local regulations for chemical waste.

3. SETUP AND INSTALLATION

Follow these steps for proper installation of the Fischer Reaction Cartridge RSB 10 Mini:

1. **Drill Hole:** Using a hammer drill, create a hole in the concrete to the specified diameter and depth. Refer to the specific anchor rod's technical data sheet for precise dimensions.
2. **Clean Hole:** Thoroughly clean the drilled hole. First, use a brush to remove loose debris, then use a blow-out pump or compressed air to remove all dust. Repeat this process until no dust is visible. Proper cleaning is critical for achieving optimal bond strength.
3. **Prepare Anchor Rod:** Insert the Fischer anchor rod (RG M) into the chemical anchor setting tool. Ensure the rod is clean and free from oil or grease.
4. **Insert Cartridge:** Carefully place the RSB Mini reaction cartridge into the cleaned drill hole.
5. **Set Anchor:** Attach the hammer drill to the setting tool. With the hammer drill set to rotary-hammer mode, drive the anchor rod into the cartridge. This action will break the glass capsule, thoroughly mix the two-component mortar, and initiate the chemical bonding process. Continue driving until the anchor rod reaches the specified embedment depth.
6. **Curing Time:** Allow the mortar to cure completely before applying any load. The curing time is dependent on the ambient and base material temperature. Consult the product's technical data sheet for specific curing times. Do not disturb the anchor during the curing period.

4. OPERATING INSTRUCTIONS

The Fischer Reaction Cartridge RSB 10 Mini is designed for single-use applications. Once the anchor rod is driven into the cartridge, the chemical reaction begins, and the mortar hardens. Do not attempt to reuse partially used or damaged cartridges.

- Ensure the anchor rod is fully inserted to the specified embedment depth to guarantee proper mixing and distribution of the mortar within the drilled hole.
- Adhere strictly to the specified curing times provided in the product's technical documentation before applying any load to the installed anchor. Premature loading can compromise the anchor's performance and safety.
- The system is designed for optimal performance when used with genuine Fischer anchor rods (RG M).

5. MAINTENANCE

The Fischer Reaction Cartridge RSB 10 Mini is a consumable product and requires no maintenance after installation. For unused cartridges, proper storage is essential to maintain product integrity and shelf life.

- Store cartridges in their original, unopened packaging.
- Keep in a cool, dry, and dark environment, protected from direct sunlight and extreme temperatures (both high and low).
- Always check the expiration date printed on the packaging before use. Do not use expired cartridges, as their performance and safety cannot be guaranteed.

6. TROUBLESHOOTING

If you encounter issues during installation or with the performance of the chemical anchor, consider the following:

- **Poor Bond Strength:**
 - **Hole Cleaning:** Ensure the drilled hole was thoroughly cleaned of all dust and debris. Inadequate cleaning is a common cause of bond failure.
 - **Hole Dimensions:** Verify that the correct drill bit diameter and hole depth were used as specified in

the anchor rod's technical data.

- **Curing Time/Temperature:** Confirm the mortar was allowed to cure for the specified duration at the correct ambient and base material temperature. Cold temperatures significantly extend curing times.
- **Anchor Rod Insertion:** Ensure the anchor rod was fully inserted and the mortar was evenly distributed within the drilled hole.
- **Cartridge Not Mixing/Hardening:**
 - **Expiration Date:** Check the expiration date of the cartridge. Expired cartridges may not cure properly.
 - **Mixing Action:** Ensure the anchor rod was driven in with sufficient force and rotation using a hammer drill in rotary-hammer mode to properly break the glass capsule and mix the two-component mortar.
 - **Temperature:** Verify the ambient temperature is within the recommended working range (down to -30 °C). Extremely low temperatures can inhibit the chemical reaction.

If problems persist, discontinue use and contact Fischer technical support or your supplier.

7. SPECIFICATIONS

Manufacturer	Fischer
Part Number	518820
Item Weight	2.82 ounces
Product Dimensions	5.59 x 3.86 x 0.63 inches
Item Model Number	518820
Item Package Quantity	1

8. WARRANTY AND SUPPORT

For detailed warranty information, technical support, or further assistance with the Fischer Reaction Cartridge RSB 10 Mini, please contact your authorized Fischer distributor or visit the official Fischer website. It is recommended to retain your purchase receipt for any warranty claims or product inquiries.