

MasterRoc[®] EQ 510 PK

½ inch mechanical packers (ports) for chemical grout injection applications

Description

MasterRoc[®] EQ 510 PK is a precision-engineered injection packer designed for curtain wall grouting in concrete block structures. It effectively bridges the surface of concrete blocks to minimize resin loss into cells, facilitating optimal resin use and clean injection operations. Its robust construction ensures consistent performance, making it the preferred solution for contractors seeking high-quality, efficient grouting.

Applications

- Grouting of cracked concrete foundations
- Sealing fine concrete cracks (hairline or thinner)
- Injection into previously repaired cracks needing additional treatment
- Water infiltration control in concrete structures
- Sealing joints in storm pipes, culverts, utility vaults, and manholes

Features

- Durable aluminum body with zinc coating
- One-way grease-type fittings
- Expandable poly sleeve adapts to irregular hole geometries

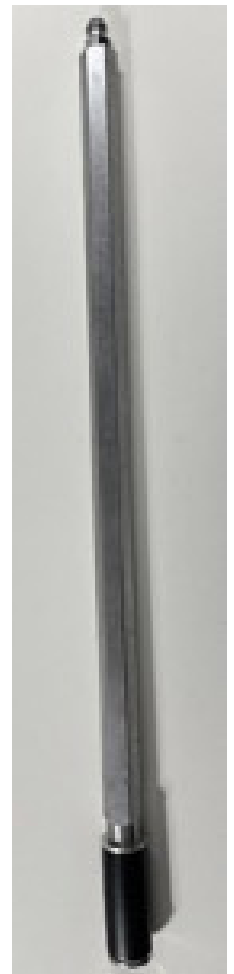
Benefits

- Withstand high injection pressures (up to 4000 psi [27 mPa])
- Prevents post-injection material leakage
- Reduces risk of blowout and minimizes spalling
- Ensures secure and stable placement with a snug fit

Performance Characteristics

Technical data

Material	Aluminum
Diameter	1/2" (12.7mm)
Length	10" (25.4 cm)
Poly sleeve color	Black



Guidelines for Use

Application Procedure:

1. Drilling:

- Drill a hole into the concrete at an angle of 45° to the surface.
- The depth of the hole should be approximately one-half of the thickness of the concrete off the center of the crack.
- The hole must intersect with the crack towards the center.
- The size (diameter) of the hole is determined by the size of the packer (1/2").

2. Cleaning:

- Flush the drilled hole with water before inserting the packer.

3. Packer Installation:

- Place the packer into the hole with the sleeve end going in first and the grease connector facing out. The top of the sleeve should be just below the concrete surface.
- Tighten using a wrench until snug. Do not overtighten, as this may stress weak concrete and cause a leak around the packer.

4. Spacing:

- Space packers between 6 inches and 3 feet (15 cm to 91 cm), depending on crack width.

5. Pre-Flush:

- Inject clean water through each packer before injecting chemical grout to flush contaminants and to facilitate a good bond with the chemical grouts.

6. Injection:

- Begin the chemical grout injection at the lowest packer on a vertical crack.
- For a horizontal crack, work laterally from one side to the other.
- Injection pressures range from 250 psi to 2500 psi (1.7 MPa to 17.2 MPa), depending on the width and thickness of the crack and concrete condition.
- Stop injecting once the grout appears at the adjacent packer.
- Disconnect from the packer and move on to the next packer.

7. Post-Flush:

- Once the chemical grouting is completed, reinject each packer with clean water.

8. Packer Removal:

- After the chemical grout is cured, remove the packers by unscrewing, pulling them out, or simply breaking them off.

9. Hole Repair:

- Fill the drilled packer holes with approved cement mortar or epoxy gel.

Estimating:

- Estimated coverage: 25 linear feet (8.3 meters) per gallon (3.7 liters) of resin (average).

Storage and Handling

Storage Temperature:

MasterRoc EQ 510 PK packers should be stored in a dry environment.

Safety Precautions:

1. Always use proper Personal Protective Equipment (PPE), including gloves, goggles, protective clothing, etc.
2. Follow OSHA drilling regulations.
3. Follow Master Builders Solutions's safety guidelines for handling chemical grouts.

Packaging

MasterRoc EQ 510 PK packers are supplied in carton boxes with 300 packers per box.

Related Documents

The Safety Data Sheet and Technical Data Sheet of the MasterRoc MP chemical grout products are to be used with MasterRoc EQ 510 PK packer.

Additional Information

For additional information on MasterRoc MP 326, please contact your local sales representative.

Master Builders Solutions creates technologies for the construction industry inspiring people to build better. We are active in ~40 countries and operate 35 production sites with over 1,600 employees. We develop, produce, and market high-quality chemical admixtures, as well as adjacent core technologies, to master the challenges of today and support a decarbonized future. Our people are pivotal and pair leading technologies and a strong brand heritage to surpass our customers' expectations and drive continuous value creation.

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