

MasterRoc[®] EQ 512 PK and MasterRoc EQ 558 PK

Mechanical packers (ports) for high pressure chemical grout injection applications

Description

MasterRoc EQ 512 PK and MasterRoc EQ 558 PK products are zinc-coated mechanical packers equipped with a grease type fitting. They are designed for use in high pressure polyurethane and other chemical grout injection applications to stop water leakage.

Applications

In high pressure chemical grout injection for:

- Repairing cracked concrete foundations
- Stopping or slowing water flows through fine cracks in concrete structures
- Injection in previously repaired concrete cracks that need further chemical grouting
- Sealing storm pipe, culvert joints, utility vaults and manholes



Features

- Made of zinc-coated steel and aluminum
- One way grease type fittings
- Expandable rubber sleeves to conform to irregular-shaped drilled holes

Benefits

- Withstand high injection pressures (up to 4000 psi (28 MPa))
- Prevent material leaking after injection
- Minimized packer movement or blowout
- Provide a snug fit and solid connection

Physical Characteristics

Technical Data

MasterRoc EQ 512 PK

Material	Zinc-coated aluminum
Diameter	1/2 in. (13 mm)
Length	5 3/4 in. (146 mm)
Color of rubber sleeve	Black

MasterRoc EQ 558 PK

Material	Zinc-coated steel
Diameter	5/8 in. (16 mm)
Length	4 in. (100 mm)
Color of rubber sleeve	Green

Guidelines for Use

Application Procedure:

1. 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, drilled away from 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 in. (13 mm) or 5/8 in. (16 mm)).
2. Flush drill holes with water before inserting the packers.
3. Place the packer into the hole (with the sleeve going in first and the grease connector facing outside). The top of the sleeve should be just below the concrete surface. Secure the packer in place by tightening with a wrench until it is snug fit. Do not over-tighten the packer, as this may stress weak concrete and cause a leak around the packer.
4. Space the holes/packers approximately 6 in. to 3 ft (150 mm to 900 mm) apart, depending on the width of the crack.
5. Flush the cracks by injecting clean water through each packer prior to injecting chemical grout, to flush any contaminants and to facilitate good bonding of the chemical grouts.
6. Begin the chemical grout injection at the lowest packer on vertical cracks, working up or on one side on horizontal cracks, working across.
7. Injection pressure may vary from 250 to 2500 psi (1.7 to 17 MPa), depending on the width of the crack, thickness and the condition of the concrete.
8. Continue injecting till the grout appears at the adjacent packer. Then stop injecting, disconnect from the packer, and move on to the next packer.
9. Once chemical grouting is completed, reinject each packer with clean water to cure the grout.
10. Once the chemical grout is cured, remove the packers by unscrewing or pulling them out or simply breaking off.
11. Fill drilled packer holes with an approved cement mortar or epoxy gel type material.

Estimating: Estimating can be achieved using an average of 25 linear ft. per gal (2 m per L) of grout.

Storage and Handling

Storage Temperature: Store MasterRoc EQ 512 PK and MasterRoc EQ 558 PK mechanical packers in dry conditions.

Safety Precautions: Standard precautions for handling chemical products should be observed. Avoid eye and skin contact and wear hand gloves and safety goggles. If contact occurs, rinse with plenty of water. In case of eye contact, seek medical advice. For further information, refer to the Safety Data Sheet.

Packaging

MasterRoc EQ 512 PK and MasterRoc EQ 558 PK products are packed in carton boxes with 500 packers per box.

Related Documents

Safety Data Sheet and Technical Data Sheet of the MasterRoc MF chemical grouts to be used with MasterRoc EQ 512 PK and MasterRoc EQ 558 PK products.

Additional Information

For additional information on MasterRoc EQ 512 PK and MasterRoc EQ 558 PK products, 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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