

MasterRoc[®] EQ 538 PK

3/8-in. Hammer-In nylon packer (drive-in port) for low pressure chemical grout injection applications

Description

MasterRoc EQ 538 PK is a plastic (nylon) hammer-in packer equipped with a grease type fitting. It is designed for use in low-pressure polyurethane and other chemical grout injection applications to stop water leaking.

Applications

- Crack injection of concrete structures
- Stopping or slowing water flows through thin cracks in concrete structures
- Injection in fine concrete cracks (thinner than hairline)
- Injection in previously repaired concrete cracks that need further chemical grouts
- Sealing storm pipe, culvert joints utility vaults and manholes.



Features

- Made of quality nylon
- One-way grease-type Zerk fitting with anti-return valve
- A nylon set tool included in each bag

Benefits

- Prevent material leaking after injection
- Minimize concrete spall and packer moving or blowout
- Provide a snug fit and solid connection
- Easy install, connect, and disconnect

Performance Characteristics

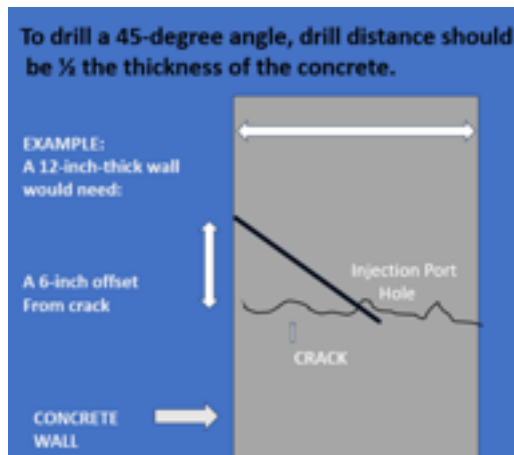
Technical data

Material	Nylon (metal fitting)
Diameter	3/8 in. (10 mm)
Length	3 in. (75 mm)
Grease fitting	5/16 in. (8 mm) Hex size (M5)
Color of rubber sleeve	Black

Guidelines for Use

Application Procedure:

- 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 the crack towards the center. The diameter of the hole is determined by the size of the packer (3/8 in. or 10 mm). See illustration below.



- Flush drill holes with water before inserting the packers if needed.
- Place the set tool over the packer, and place the packer to the opening of the drill hole with the grease fitting connector facing out. (The set tool is designed to allow the force required to hammer the packer into the drill hole without damaging the grease fitting.)
- Hammer the packer into the drill hole and allow the plastic body of the packer creates a compression seal.
- For better adhesion, coat the bottom sides of the packer with polyurethane to allow for the packer to bond with the concrete and close small cracks around the drill hole before injection.
- Space the holes/packers between 6 inches to 3 feet apart (150 mm to 0.9 m) depending on the width of the crack.
- Flush the cracks by injecting clean water through each packer prior to injecting chemical grout to flush any contaminants and to facilitate a good bond with the chemical grouts.
- Begin the chemical grout injection at the lowest packer on a vertical crack or on one side working across on horizontal cracks.
- Injection pressure may vary from 250 psi to 2500 psi (1.7 MPa to 17.2 MPa), depends on width of the crack, thickness and condition of the concrete, etc. Do not inject with a pressure higher than the limit.
- Continue injecting till the grout appears at the adjacent packer. Then stop injecting, disconnect from the packer, and move on to the next packer.

Storage and Handling

Storage Temperature: Store MasterRoc EQ 538 PK packers in dry conditions above 41 °F (5 °C).

Please note: frozen or cold packers become brittle and are subject to cracking during installation.

Safety Precautions:

- Always wear proper Personal Protective Equipment (PPE) including gloves, goggles, protective clothing, etc.
- Comply with all OSHA regulations for drilling.
- Follow safety guidelines for Master Builders Solutions chemical grouts.

Packaging

MasterRoc EQ 538 PK packers are packed in carton boxes with 1000 packers per box (10 bags per box, 100 packers per bag, and there is a set tool in each bag).

Related Documents

Safety Data Sheet and Technical Data Sheet of the MasterRoc MF chemical grout to be used with MasterRoc EQ 538 PK packers.

Additional Information

For additional information on MasterRoc EQ 538 PK packers, please contact your local sales representative. Maybe used with all MasterRoc Injection resin

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