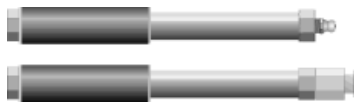


Injection Systems - Step Three : The Right Packers

You have decided on the grout and got the right pump. Now you move on to step three: Which packers or ports will you use for your injection job? Packers come in all sizes and shapes, and in prices range from cents to dollars. But how do you make an intelligent decision between the choices? Is more expensive always better - is plastic as effective as metal and rubber?

Well, it all depends. The injection method and the selected material will help you to determine the hardware. Are your cracks actively leaking, are they dry, do you use epoxy or do you inject polyurethane? How much pressure will be used, how do you connect your grout line?

There are two primary categories of packers available. Insertable packers (mechanical packers) and surface mounted ports. Mechanical packers are typically used for polyurethane injection and high pressure epoxy injection. Since they are not glued to the surface, they work well in wet areas and with decayed concrete.



Mechanical packers come with zerk fittings and button heads (slide fittings). The zerk type is more commonly used and is less costly. It easily

connects and disconnects and works nicely with medium to high injection pressures. The button head type can be of advantage in high volume applications and it offers a superior connection which is helpful for single operator injection.

High Injection pressure is the keyword to determine a quality packer. It separates the packer champs from the chumps. Nobody likes packers to fail when injection pressures are in excess of 1000psi.

Premium packers are made of metal and an expandable rubber sleeve to minimize concrete spalls and packer blow outs. A medium soft, slightly rough rubber provides the best grip. Mechanical packers made of cheap plastic and a plastic sleeve are inferior by design. Always keep in mind, a snug and reliable fit is essential for the safety of the technician and the key factor for successful injection work.



The size of the packer selected depends on the volume to be pumped, the pressures to be applied, cosmetic and other considerations. Common diameters are 1/4 inch, 6mm, 3/8 inch, 8mm, 10mm, 1/2 inch, 5/8 inch and 3/4 inch. The 1/2 inch packer seems to be the best compromise in strength and size and can be called a



standard. Long versions and extensions are also available. Remember to keep the drill-hole as small as possible when selecting your packer size.

Design considerations such as location of an anti return valve, ease of use etc. are also very important.

Our recommendation for most polyurethane injection is for the mechanical packer type, with the exception of very low injection pressures into first grade concrete. In this scenario, the high grade plastic made hammer-in packers may be considered a viable alternative.



Surface ports are commonly used for epoxy injection at low injection pressures. They are glued to the concrete surface. A spread out base with holes is recommended for good adhesion. The grout line can then be attached with a quick-connect system. Since most surface ports lack an anti return valve, a seal cap is provided for use after injection.



WEBAC Corp. provides unique ports for specialty applications such as a surface port with a zerk fitting to utilize single component injection systems for small epoxy and polyurethane jobs, the injection screw for the WEBAC 2000 Inject Tube System for cold joints and other specialty packers.



WATERTIGHT COLD JOINTS -



WEBAC Corp. is a leading provider for injection packers. We keep a large inventory of different sizes, shapes, materials and connections. Our great turnover rate permits us to offer packers at the most competitive prices possible. Call us and request your free samples. Get the right packers for your job and save money now!

Our technical staff is always on hand to assist you with any questions.



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Packers and Accessories**

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