

EC-999 PU Injection Pump

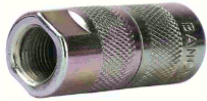


Mechanical advantage

1. Advantages: good mechanical properties.
2. Portable: small size, light weight, easy to carry, simple operation.
3. High efficiency: can reach 0~ 80Mpa working pressure in a few seconds. Advanced technology, time - saving, labor - saving, high efficiency.
4. Safety: reliable technology, reasonable structure, safe use.
5. Pressure continuous: continuous high pressure so that the agent can be effective in the concrete structure of the micro-gap, micro-cracks, micro-pores, capillary filling plug.
6. The structure of non-destructive: direct installation of concrete cracks grouting nozzle grouting, not picking groove, not buried pipe, non-destructive to the structure.
7. With water plugging: for all kinds of crack leakage, honeycomb leakage, underground water gushing, can be directly with water grouting plugging. The slurry can be effectively injected deep into the fracture.
8. Supporting a wide range of materials: polyurethane, epoxy resin, acrylic resin and other non-granular low viscosity slurry materials can be used.
9. Multi-function: one machine multi-purpose, plugging grouting, consolidation grouting, crack reinforcement grouting.
10. Resistance to use: high pressure 80MPa timing body parts do not deform. Simple maintenance, convenient maintenance, durable, convenient cleaning.

Model	EC-999
Motor Power	910W Single Phase AC 220V / 50Hz
No-load	2800 r/min
Flow Rate	0-1 L/min
Max. Output Pressure	15,000psi
Second Start Pressure	8,500psi
Safety Range of High-Pressure Pipe	< 10,000psi
Safety Range of on/Off Valve	<10,000psi
Safety Range of Nozzle	<10,000psi
Warranty Service: • One (1) month for the original invoice date • Warranty is applied to products that have been, always, properly maintained and operated or used under normal operating conditions for which the product was designed. • The manufacturer warrants this product due to defective materials or workmanship.	

Option Accessories

Item Code	Description		Picture
EC999-A10	Injection Packer A10 13x90mm		
EC999-B10	Injection Packer B10 11x100mm		
EC999-12	Zerk / Nozzle for BK988		
EC999-12-03	Pad of Zerk BK988 (10pc/pack)		
POLYG-20KG CATA-1KG	POLYURETHANE GROUT 20KG CATALYST C (1KG)		
EC999-06	HIGH PRESSURE GAUGE 10000PSI		
EC999-07	MATERIAL CUP		
EC999-10	HIGH PRESSURE HOSE 5 METER (10000psi)		

EC999-11A	INJECT GUN WITH VAVLE AND NOZZLE		
EC999-FILTER	FILTER NET		
	18L AAA Thinner (5 Gal)		
	3.5L AAA Thinner (1 Gal)		

POLYURETHANE GROUT WITH CATALYST



Description:

Polyurethane Grout (PU) with catalyst is a hydrophobic grout based on MDI. When PU comes into contact with water, it will react and expand up to 30 times to foam. PU is 100% solid and solvent free. Reaction time can be controlled and adjusted by the addition of catalyst.

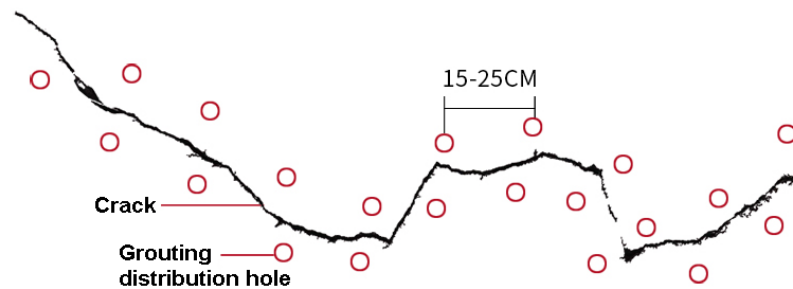
Direction of Use:

- Drill holes of appropriate diameter with selected packer.
- Drill are aimed 45 degrees downwards into the walls.
- It is recommended that the holes created in the wall be staggered around the cracks to ensure good sealing coverage of these cracks.
- It is advisable to use separate pumps for the water and grout injection to prevent contamination.
- Inject polyurethane grout into packers in the holes.
- Allowing small leakage of the grout through wall cracks can show the extent of chemical travel. Large leaks can be wiped off, wait for the PU to set and then continue injecting.
- Once the pumping of PU grout is done, clean all machines and pumps in contact with chemical using thinner.
- Consumption of PU grout is to be estimated by the operator and is also dependent on the size of the crack and void.

Field of application:

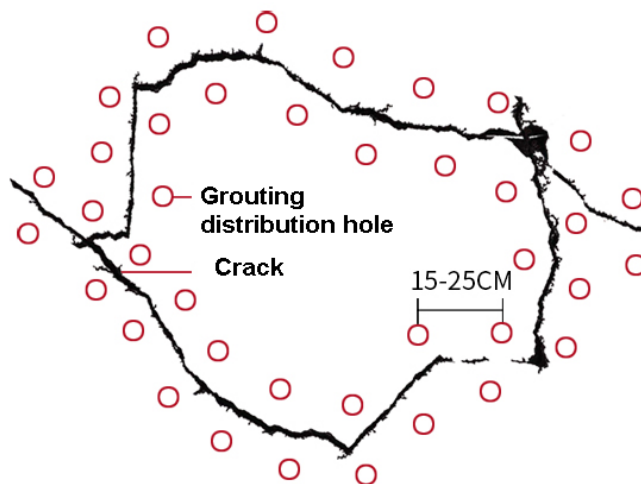
- Used for stopping gushing water leaks.
- Used to block and seal off water leaks in diaphragm walls, tunnel segment and secant bore pile.
- Fills voids, cracks, cavity and honeycomb.

Sample 1: Cracks and leaks in the Structure



- Drilling at 45° to the left or right 2-8CM of the lowest part of the crack to the depth sequence of about half the thickness of the structure, from low to high, the hole spacing is 15-25CM, and the water-stop needle can be buried after the drilling is completed. Since the cracks in the general structure are irregular, it is necessary to pay attention to the intersection with the crack surface when drilling, so that the effect will be better.
- After the water stop needle is placed, pour it with grouting liquid until the slurry seeps out of the surface of the structure.
- After the grouting is completed At least 48 hours before removing the grouting water stop needle.

Sample 2: Honeycomb leak



- Drill a hole every 15-25CM in the honeycomb area with a depth of about half the thickness of the structure, then place the grouting water-stop needle and fix it with a twist lock.
- After the water-stop needle is placed, pour it with grouting fluid Until the grout seeps out of the surface of the structure.
- At least 48 hours after grouting is completed, then remove the grouting water stop needle.