

POWER PROOF

باور برووف للتجارة و المقاولات
POWER PROOF TRADING & CONTRACTING



2019 PRODUCTS CATALOUGE



BUILDING CHEMICAL MATERIAL
FOAM, GEL, ACRYLIC



CHEMICAL INJECTION MACHINES
SINGEL-DOUBLE COMPONENT, PACKERS

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INJECTION PACKERS

High quality steel and aluminum packers & couplers

POWER PROTECT O-95

Oil-based Polyurethane Foam Injection Resin

Description

Single component, low viscosity, Hydrophobic closed cell polyurethane foam injection resin.

Applications

It can stop the water leaking in the building very fast, widely used in Subway Station, Tunnel, Culvert, Foundation Improvement, Soil Settlement, Reservoir, Port Project, Top Slab, Cracks Construction Join, Shrinkage Crack, Basement hairline crack etc.

Advantages

- Short waiting times during the works.
- Better crack penetration due to low viscosity
- Better sealing due to great adhesion with concrete.
- High resistance to aggressive chemicals.
- Permanent repair and long-term flexibility.
- Very reactive with water and can complete foaming process within 1 -3 minutes.
- Can retain its properties when mixed with weak base/acid, even with seawater.



Item	Standard Index	Test Results
Density (g/cm ³ 25°C±0.5°C)	≥1.00	1.16
Viscosity (Mpa.S 25°C±0.5°C)	≤1.0×10 ³	450 to 900
Curing Time /s	≤800	321
Foaming Capability /%	≥1000	2050
Non-Volatile Content/ %	≥75	78
Flash Point °C	≥124	130
The ignite Temperature °C		402
Reaction time with water @ 20 °C /s		18
Specific Gravity @ 20 °C		1.17

POWER PROTECT W-70

Water-based Polyurethane Gel Injection Resin

Description

Single component, low viscosity, high flexible hydrophilic polyurethane gel injection resin

Applications

It can stop the water leaking in the building very fast, widely used in Subway Station, Tunnel, Culvert, Foundation Improvement, Soil Settlement, Reservoir, Port Project, Top Slab, Cracks Construction Join, Shrinkage Crack, Basement Hairline crack etc.

Advantages

- Low viscosity
- Adjustable set time-as fast as 20 seconds
- Water impermeable
- Injected as a single component, direct use ,no need to mix with catalyst
- Used for injecting cracks widths up to 10 mm.
- Suitable for hairline Cracks .



Item	Standard Index	Test Results
Density (g/cm ³ 25°C±0.5°C)	≥1.00	1.07
Viscosity (Mpa.S 25°C±0.5°C)	≤103×1.0	300 to 600
Gel Time /s	≤150	10 to 130
Foaming Capability /%	≥350	350
Non-Volatile Content/ %	≥75	80
Flash Point °C	≥124	160.6
The ignite Temperature °C		402
Tensile Strength / Mpa		5.49
Elongation at Break		0.62
Modulus of Elasticity / Mpa		4.69
Shore A Hardness		A/1/64
Volatile Organic Compounds (VOC)/ %		14.69

SMART-X

High Pressure Integrated Single Components Injection Machine

- Light weight
- Portable
- Can be operated by one worker only
- Can be controlled remotely by remote control
- Built-in memory to save the last pressure value
- LED display to use in dark places
- Automatically stopped when the pressure exceed a specific value
- Compact & Sturdy Design
- Hose Set included
- Heavy duty for daily use
- Pressure gauge
- Recommended for beginners and injection professionals



Sn	Parameter	Value
1	Appearance	Aluminum structure, modular design
2	Volume	385mm length * 420mm height * 195mm width
3	Drive power	220V、50HZ、26A、900W
4	Maximum pressure	80Mpa / 12000psi / 680bar
5	Working pressure	10-55MPa / 1450-7900psi / 100-550
6	The Pressure adjustable Range of Remote Control	From 10MPa to 70 MPa
7	Injection performance	easy to inject, can use at low temperatures; Single component grouting, simple construction, easy to clean up
8	Application range	subways, tunnels, underground structures, cracks, construction joints, expansion joints, site improvements, floor and other upgrading works.
9	Weight	8 KG
10	Package	Carton

COMPACT-6

High Pressure Single Component Injection Machine

- Light weight
- Portable
- Compact & Sturdy Design
- Hose set included
- Heavy duty for daily use
- Pressure gauge
- Recommended for beginners and injection professionals



Sn	Parameter	Value
1	Appearance	Aluminum structure, modular design
2	Volume	385mm length * 420mm height * 195mm width
3	Drive power	220V、 50HZ、 26A、 900W
4	Maximum pressure	80Mpa / 12000psi / 680bar
5	Working pressure	10-50MPa / 1450-7250psi / 100-500bar
6	Injection performance	easy to inject, can use at low temperatures, Single component grouting, simple construction, easy to clean up
7	Application range	subways, tunnels, reservoirs, underground structures, cracks, construction joints, expansion joints, site improvements, floor and other upgrading works.
8	Weight	7.8 KG
9	Package	carton

PRO-5

Powerful single component Injection pump

- Light weight
- Portable
- Compact & Sturdy Design
- Hose Set included
- Heavy duty for daily use
- Pressure gauge
- Recommended for beginners and injection professionals



Sn	Parameter	Value
1	Appearance	Hard structure, modular design
2	Volume	385mm length * 420mm height * 195mm width
3	Drive power	220V、 50HZ、 26A、 800W
4	Maximum pressure	70Mpa / 10000psi / 650bar
5	Working pressure	10-45MPa / 1450-6500psi / 100-450bar
6	Injection performance	easy to inject, can use at low temperatures; Single component grouting, simple construction, easy to clean up
7	Application range	subways, tunnels, reservoirs, underground structures, cracks, construction joints, expansion joints, site improvements, floor and other upgrading works.
8	sealing agent applied	water base polyurethane, oil base polyurethane, epoxy resin
9	Weight	7.6 KG
10	Package	Carton

INJECTION PACKERS

High quality steel and aluminum packers & couplers



Code : BC1080
Length : 80 mm
Diameter : 10 mm



Code : BC10100
Length : 100 mm
Diameter : 10 mm



Code : BC13100
Length : 100 mm
Diameter : 13 mm



Code : BC13150
Length : 150 mm
Diameter : 13 mm



Code : BC13200
Length : 200 mm
Diameter : 13 mm



Code : BC13250
Length : 250 mm
Diameter : 13 mm



Code : IC01336
Length : 36 mm
Diameter : 15 mm



Code : SB
Length : 50 mm
Diameter : 15 mm

INJECTION PACKERS

High quality steel and aluminum packers & couplers

Code	BC1080	BC10100	BC13100	BC13150	BC13200	BC13250
Length (mm)	80	80	100	150	200	250
Diameter (mm)	10	10	13	13	13	13
Drill Diameter (mm)	11	11	14	14	14	14
Weight (g)	11.3	13.0	23.1	30.8	36.4	43.6
Working Pressure (bar)	100	100	100	100	100	100
Application Range	subways, tunnels, reservoirs, underground structures, hair-like cracks, construction joints, expansion joints, cracks ,site improvements, harbor construction, floor and other upgrading works.					
Sealing agent applied	water base polyurethane, oil base polyurethane, epoxy resin					
Packing (Pcs/Carton)	1500	1000	1000	500	500	500

Crack Repair

- a. Find crack: For wet surface, first clean water; for dry surface, clean dust. Carefully looking for cracks, using colored pens or chalk mark along the cracks.
- b. Drilling: According to the thickness of concrete structures, from the crack of about 350 ~ 150mm, cross-drilled on both sides along the crack direction. 14mm diameter drill bit used. Holes and cracks in cross-section should be 45 degrees to 70 degrees cross, and the central cross in the bottom 2 / 1 range.
- c. Bury injection packers: buried with tools and fastening to ensure that the rubber part of the needle and the hole wall are dry before use, otherwise easily lead to slip when tightening.

MANY WAYS TO COMUNICATE WITH US

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