

CONCRETE WELDER TECHNICAL SPECIFICATION SHEET

Page 1 of 2

PRODUCT DESCRIPTION

Concrete Welder rebonds cracked concrete. This thin, penetrating polymer is applied with the Roklin Concrete Welder Polymer Low Pressure Dispensing System. Concrete Welder restores concrete strength by penetrating and rebonding cracks. Large cracks are sand filled then saturated with Concrete Welder to form a high strength polymer concrete.

Concrete Welder restores concrete strength for roads, bridges, slabs, parking structures, roofs and floors. It seals concrete to stop freeze thaw spalling and chemical attack. Roklin Concrete Welder repairs are fast. Traffic can resume within 20 minutes.

PENETRATES AND REBONDS

Penetrates and rebonds thin, wide or deep cracks to restore concrete strength.

SEALS AND PROTECTS

Waterproofs, protects from freeze/thaw spalling. Smooths rough surfaces. Restores traction surfaces.

FAST REPAIRS AND CURE

Solidifies in less than 5 minutes. Ready for traffic in 20 minutes.

REPAIRS YEAR ROUND

Successful repairs in cold or hot weather.

SAFE TO USE, LOW ODOR

Concrete Welder is non-flammable. There are no peroxides or heavy metals. There is little odor on application, and it is safe to use. See product safety data for more information.

CHEMICALLY RESISTANT

Resists dilute acids and alkalis. Unaffected by salts, gasoline, diesel fuel, lubricating oils, or antifreeze. Fuel & oil drips from vehicles will not penetrate treated areas.

TYPICAL PROPERTIES: APPLICATION

Component	"A"	"B"
Ratio, A:B, volume	1	1
Viscosity @ 73°F, cps	24	57.5
Appearance	Amber	Gray
Specific Gravity @73	1.09	1.01
Flash Point, oF.	245	360
Mixed		
Pot life, minutes, @ 73°F	3	
Cure time, minutes, @ 73°F	10	
Cured color	Gray	

TYPICAL CURED PROPERTIES

Specific Gravity,	ASTM, D-792	1.07
Hardness, Durometer D,	ASTM, D-2240	70
Tensile Strength, psi ,	ASTM, D-412	4300
Elongation at Break (%),	ASTM, D-412	<10
Tear Strength,	ASTM, D-624	275
Compression Strength, psi,	ASTM, C-39	4250
Bond strength to PCC, psi	500	
(concrete fails cohesively)		

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Page 2 of 2

PACKAGING

Roklin Concrete Welder equal volume "A" and "B" components are packaged in kits of 100 gallons, 30 gallons, and 10 gallons. Shelf life is 12 months in unopened containers stored indoors. For small jobs apply from 21 or 53 ounce cartridge kits with hand operated or air powered dispensing guns. For larger or bulk applications use the Roklin VariFlo polymer dispensing system.

INSTRUCTIONS

Roklin Concrete Welder performs well in temperature extremes. For best performance, install Roklin Concrete Welder at 10°F. to 100°F. ambient temperature and 50-75°F. material temperature. Do not apply during rain or on wet surfaces. **Read Material Safety Data and Installation Instructions before using product.**

BULK APPLICATION EQUIPMENT:

Roklin dispensing equipment transfers, meters, mixes and applies Roklin Concrete Welder. Co-reactive "A" and "B" components are transferred from 5 to 50 gallon containers, through the proportioning pumps (1:1 ratio), to the dispensing gun. Mixed material is dispensed into repairs.

LARGE CRACK REPAIR:

1. Remove loose and unsound material.
2. Blow crack clean with dry compressed air.
3. Fill crack with 50 mesh or larger sand.
4. Flood crack with ROKLIN Concrete Welder.
5. For a skidproof surface, top with sand.

HAIRLINE CRACK REPAIR

1. Blow out cracks with dry compressed air.
2. Flood with Roklin Concrete Welder.
3. Broadcast clean, dry, uniformly graded sand on uncured liquid for high traction surface.

SPIDER CRACKS

1. Shot blast or sand blast deck surface.
2. Flood deck with Concrete Welder at the rate of one gallon per 100 square feet.
3. Immediately broadcast sand to refusal into the uncured liquid.
4. When cured sweep off excess sand.

RESTORING TRAFFIC

With Roklin Concrete Welder , traffic can resume within 20 minutes of completion of work reducing the time of crews exposure to oncoming traffic.



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