



Low Viscosity Epoxy Injection

GENERAL DESCRIPTION

RadonSeal 121 LV is a two-component, 100% solid, epoxy resin system which has a high modulus of elasticity. It is formulated to meet ASTM C-881 specifications. It is unique in that it rapidly thickens in the crack, even those less than 1/32 of an inch, so that material cannot leak out the back for more than 10-20 minutes (unlike conventional products which can flow out hours after injection). You can now confidently replace whatever may have leaked out in those twenty minutes knowing that no more can leak out, unless all the initial injection has leaked out the back of the crack within 20 minutes (unlikely to happen). This overcomes the most common epoxy crack repair failure, namely the incomplete injection of epoxy into a crack arising when material leaks out the back of a crack after injection.

USES

- Structural repair of cracked concrete by pressure injection, grouting.
- Monolithic restoration of delaminated concrete.
- Grouting material when mixed with aggregate.

SURFACE PREPARATION

All surfaces must be clean and free of dirt, dust, oil, grease or any contaminant that could adversely affect the bond of the surface seal. Surfaces must be structurally sound. Surfaces may be dry or damp. However, due to the many variables in bonding damp surfaces, be certain to make a test application under the same conditions as the full scale work.

APPLICATION

Injection: The material can be injected into cracks down to .002 inches with pressures ranging from 20 to 300 psi. Inject through plastic ports. Depending upon the depth of the wall, place them every 6" to 1' along the length of the crack. Wherever possible, seal all surfaces of the crack. When dealing with hydrostatic pressure, hydraulic cement should be used to control the water flow and seal the crack.

Begin injection of the mixed material with the lowest port or at one end of the crack. Continue pumping until resin flows from the next port. Then seal (with the included cap) the first port and move onto the next one using the same procedure along the length of the crack..

PHYSICAL PROPERTIES AFTER CURE OF 14 DAYS @ 75 °F. AT 50% R.H.

Tensile Strength, psi	ASTM D-638	2-4%
Tensile Elongation	ASTM D-638 modified	2-4%
Compressive Strength, psi	ASTM D-695	12,000
Compressive Modulus, psi	ASTM D-695 (28 days)	500,000
Shear Strength, psi	ASTM D-732	5,100
Deflection temp: @ 264 psi	ASTM D-648	126 °F
Bond Strength, psi	ASTM C-882	2,800

WARRANTY

Recommendations concerning the performance or use of this product are based upon independent test reports believed to be reliable. If the product is proven to be defective, at the option of the Manufacturer, it will be either replaced or the purchase price refunded. The Manufacturer will not be liable in excess of the purchase price. The user will be responsible for deciding if the product is suitable for his application and will assume all risk associated with the use of the product. This warranty is in lieu of any other warranty expressed or implied, including but not limited to an implied warranty of merchantability or an implied warranty of fitness for a particular use.



Epoxy Surface Seal/Adhesive

GENERAL DESCRIPTION

RadonSeal Surface Seal/Adhesive is a high modulus epoxy gel designed to anchor dowel and tie bars into concrete pavement. It can be used for bonding miscellaneous materials to concrete and is also ideal for surface sealing of cracks prior to injection. Injection ready in approximately 1 hour (cure time varies with ambient temperature).

USES

- Surface sealing.
- Setting parking bumpers.
- Anchoring dowel and tie bars into concrete pavement.

AREAS OF APPLICATION

As with any epoxy adhesive, surface preparation is critical. Concrete surfaces should be cleaned by sandblasting, water blasting or other mechanical means. All loose or unsound material must be removed. If patching, the outer perimeter of the spall should be saw cut or chipped to near vertical. Surfaces should be dry and dust free to insure a superior bond. RadonSeal Surface Seal/Adhesive will cure in the presence of moisture although application onto wet surfaces is not recommended.

SAFETY PRECAUTIONS

This product can cause skin irritation. Always wear protective clothing. Wash contaminated area with soap and water, never solvent. In case of eye contact, flush with water for 15 minutes; immediately see a physician.

TECHNICAL DATA

Properties	Part A	Part B	Mixed
Solids by Volume	100%	100%	--
Color	White	Black	Grey
Shelf Life	2 years	2 years	--
Weight by Gallon	9.9 - 10.1 lbs	9.9 - 10.1 lbs	9.9 - 10.1 lbs
Mix Ratio (Vol)	--	--	1:1



Properties	Part A	Part B	Mixed
Pot Life: (3 oz)	—	--	10 - 15 mins
Gel Time (5 mil)	—	--	Aprox. 1 hour
Final Cure	—	--	1-3 days
Viscosity	—	--	Non sag gel
Hardness (Shore)	—	--	80-D
Ultimate Pull Out Strength	—	--	18,000 lbs

PHYSICAL PROPERTIES

Tensile Strength	ASTM D-638	6,000 psi
Tensile Elongation	ASTM D-638	3-4%
Compressive Strength	ASTM D-695	13,500 psi
Bond Strength	ASTM D-321	2,400 psi
Flexural Strength	ASTM D-790	8,000 psi
Deflection temp	ASTM D-648	190 °F

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Blow Hole Repair (Syringe)

GENERAL DESCRIPTION

The RadonSeal Blow Hile Repair Syringe is designated for use as a blow hole repair material, following the application of RadonSeal Surface Seal material. It has outstanding cured strength and is not recommended when removal is required.

TECHNICAL DATA

	Prepolymer	Curative	Mixed
Viscosity (cps)	15,000	20-40,000	--
Ratio by weight	1.08	1.00	--
Ratio by volume	1	1	--
Color	White	Grey	--
Nominal working time	--	--	5-8 minutes
Nominal injection time	--	--	10-20 minutes

CLEAN UP

In general, should be a moisture-free solvent. Most effective is methylene chloride, followed by MIBK. If above is not acceptable, use less efficient solvents such as mineral spirits or DOP.

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