

CONCRESlVE® 1210

Ultra low viscosity urethane injection resin for controlling water flow

DESCRIPTION:

CONCRESlVE® 1210 is a low viscosity, one component polyurethane injection resin designed for sealing fine cracks and joints in concrete for water control. This resin reacts with water to form a high tensile strength, closed cell foam with excellent adhesion and flexibility.

RECOMMENDED FOR:

- Sealing leaking hairline cracks and joints in concrete and masonry structures

FEATURES/BENEFITS:

- Excellent penetration of fine fissures
- Cured resin withstands thermal expansion/contraction, wet/dry cycles, freeze/thaw cycles and crack movement without degradation
- Excellent resistance to fungi, gasses and chemicals normally found in soil and standard commercial structures
- Application using single or plural component injection equipment

PACKAGING/ESTIMATING:

CONCRESlVE 1210 is packaged in 5 gal (19 L) pails, with large bung-type pour spouts, filled and sealed with a dry nitrogen blanket. Volume depends on mix ratio of water to resin and moisture in concrete and surrounding soil.

PERFORMANCE DATA:

Uncured

Solids	82 to 86%
Viscosity	250 to 400 cps (depending on temp.)
Color	light brown (clear)
Density	8.48 lb/gal (18.7 kg/L)
Flash Point	87 °F (31 °C)
Corrosiveness	Non-corrosive
Reaction Time	20 to 30 seconds at 80 °F (27 °C)

Cured

Tensile Strength (ASTM D3574 - 91)	70 to 90 psi (0.48 to 0.62 MPa)
Elongation (ASTM D3574 - 91)	400%
Shrinkage	<8%
Toxicity	Nontoxic

MIXING:

No mixing required.

The following information regarding application is provided as a brief overview. For detailed instructions before use of the product, consult the CONCRESlVE 1210, 1230 & 1250 Installation Bulletin (6112)

APPLICATION:

Clean crack with a wire brush and seal surface with a sealing material (i.e. hydraulic cement - EMACO® 503, epoxy gel - CONCRESlVE® Paste SPL, oakum rope soaked in CONCRESlVE 1210). Drill injection holes at a 45 degree angle to the surface of the concrete, intersecting the crack and penetrating the concrete through 1/2 its thickness. Space between injection ports should be equal to 1/2 the thickness of the concrete.

Install injection ports or packers in 1/2 in. to 5/8 in. (13 to 16 mm) holes so that the top of the sleeve is just below the concrete surface. Flush both the cracked concrete and the injection equipment prior to pumping. Inject the concrete beginning at the lowest packer or beginning with the first packer that was flushed on the horizontal crack. Move to the next adjacent port when material appears from a packer. Repeat the injection of the first packer after pumping a number of ports. Pressure will vary from 200 psi to 2,500 psi (1.38 to 17.24 MPa) depending on crack thickness, concrete thickness and contamination. Re-inject water into the crack to cure resin left behind in the drill hole.

Clean all surfaces and equipment after completing the pumping operation using acetone or other solvents. Follow proper waste disposal methods for solvents. Cured resin is an inert material and can be disposed of by standard means.

LIMITATIONS:

- CONCRESlVE 1210 is sensitive to moisture and somewhat sensitive to elevated temperatures. Product should be stored in dry conditions less than 80 °F (27 °C) and ideally between 40 and 60 °F (4 and 16 °C). Containers are shipped with a nitrogen blanket on the resin. The shelf life is significantly reduced once the container is opened.
- CONCRESlVE 1210 should be installed when work areas are well ventilated. The uncured resin contains acetone and toluene diisocyanate. The liquid and vapor in the uncured state may be hazardous. Avoid contact with eyes and repeated contact with the skin. Use of organic vapor cartridge respirator, rubber gloves and safety face shield is recommended. Familiarization with MSDS guidelines is critical. Follow all procedures in the MSDS.

RELATED BULLETINS:

Material Safety Data Sheet — CONCRESLIVE 1210

Installation Bulletin 6I12 — CONCRESLIVE 1210, 1230, & 1250

Specification Bulletin 6S12 — CONCRESLIVE 1210, 1230, & 1250

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