

## CHEMFLEX L.V.

Moisture activated polyurethane chemical grout sealant for water infiltration in concrete

**CHEMFLEX L.V.** is a single component moisture activated polyurethane low viscosity chemical grout sealant containing prepolymer isocyanates (MDI) and is used to stop water infiltration in concrete structures through cracks and joints.

**CHEMFLEX L.V.** is a non flammable, V.O.C. compliant grouting material. **CHEMFLEX L.V.** is a hydrophobic chemical based sealant which can be used above or below grade due to the minimal shrinkage this grout may exhibit.

### USES

Waterproofing leaking construction joints and cracks in concrete structures.

#### TYPICAL USES:

- Parking garages
- Dams
- Tunnels and bridges
- Municipal infrastructure: subway structures & water reservoirs
- Pulp & Paper tanks, bassins & chests
- All other cast in place or prefabricated concrete structures

### PRODUCT FEATURES

- Durable, flexible
- Closed cell foam in cured state
- Low shrinkage
- Environment and applicator friendly
- Non-flammable
- Inert once cured
- Easy to use

### SURFACE PREPARATION

In order to properly prepare for material injection drill holes and install injection ports. To determine pattern, angle and depth of the drill holes and injection port placement a thorough study is suggested. Please consult your local **SOLHYDROC** representative for installation procedures.

### PRIMING

No primer required.

### PRODUCT MIXING

- Add between 0.5% to 3% Accelerator to Resin depending on the desired setting time.
- Mix thoroughly until homogeneous.

### MATERIAL PHYSICAL PROPERTIES @ 25°C (77°F)

| UNCURED PROPERTIES: CHEMFLEX L.V. (RESIN) |                              | CURED PROPERTIES |                              |
|---|------------------------------|------------------|------------------------------|
| Density                                   | 1.06 ASTM D4659-B            | Density          | 1.074 ASTM D3574-A           |
| Viscosity                                 | 1200 cps (+/-200) ASTM D4889 | Tensile Strength | 800 – 1,200 KPa ASTM D3574-E |
| Colour                                    | Pale Yellow                  | Elongation       | 250% ASTM D3574-E            |
| % of solids                               | 90 – 98% ASTM D1259          | Shrinkage        | < 1% ASTM D1042              |
| Flash Point                               | > 132°C (270°F) ASTM D93     | Toxicity         | Non-toxic                    |
| Corrosivity                               | Non-corrosive                |                  |                              |
| UNCURED PROPERTIES: FLEXCEL (ACCELERATOR) |                              |                  |                              |
| Density                                   | 0.995 ASTM D4659-B           |                  |                              |
| Viscosity                                 | 35 cps ASTM D4889            |                  |                              |
| Colour                                    | Clear liquid (Amine Odor)    |                  |                              |
| Flash Point                               | 170°C (338°F) ASTM D93       |                  |                              |
| Corrosivity                               | Amine = Corrosive            |                  |                              |

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### ■ PRODUCT APPLICATION

- Install using a single component injection pump.
- Clean pump and equipment regularly with appropriate solvent and when the injection is completed.

### ■ CURING

**CHEMFLEX L.V.** is a self-curing material.

### ■ ESTIMATING/YIELD

Yield will be a function of the temperature of the unit injected and the percentage of the accelerator used. Estimation of material required will depend on the type of structure injected. **SOLHYDROC INC.** recommends contacting an approved applicator for a more precise evaluation of the quantities required.

**CHEMFLEX L.V.** Resin: 20 kg (5 gal - 44 lb) pail  
**FLEXCEL** Accelerator: 740 ml (25 oz) can

### ■ PRECAUTIONS/RESTRICTIONS

- Minimum application temperature, 5°C (41°F).

### ■ PACKAGING

**CHEMFLEX L.V.** Resin 20 kg (5 gal - 44 lbs) pail  
**FLEXCEL** Accelerator 740 ml (25 oz) can

### ■ RECOMMENDED TOOLS

The following tools will assure a cost effective, satisfactory installation:

- Percussion drill with 3/8" drill bit
- **SOLHYDROC** 3/8" injection packers with zerk fittings
- Single component injection pump (Titan 440E modified for polyurethane injection)

Please contact your local **SOLHYDROC** representative or approved applicator for details concerning equipment and their use.

### ■ CLEANING

Use **SOLHYDCLEAN** polyurethane cleaner.

### ■ STORAGE

Store in cool dry area avoiding all moisture. Keep container well-sealed between uses.

### ■ SECURITY

See Material Safety Data Sheet.

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SOLHYDROC WARRANTS that the product conforms to its chemical description and is reasonably fit for the purpose stated on its Technical Bulletin when used in accordance with its directions. SOLHYDROC makes NO OTHER WARRANTY either expressed or implied. Buyer assumes all risk in handling.

*For Professional Use Only*

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