



# 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 BMQ SOLUTIONS 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.

## ■ 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.

## 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                                 | 650 cps (+/-200) ASTM D4889 | Tensile Strength | 800 - 1,200 KPa ASTM D3574-E |
| Colour                                    | Pale Yellow                 | Allongement      | 250 % ASTM D-3574-E          |
| % of solids                               | 90 – 98 % ASTM D1259        | Shrinkage        | < 1% ASTM D1042              |
| Flash Point                               | > 152°C (270°F) ASTM D-93   | Toxicity         | Non-toxic                    |
| Corrosivity                               | Non-corrosive               |                  |                              |
| UNCURED PROPERTIES: FLEXCEL (ACCELERATOR) |                             |                  |                              |
| Density                                   | 0,995 ASTM D4659-B          |                  |                              |
| Viscosity                                 | 15 cps ASTM D4889           |                  |                              |
| Colour                                    | Clear liquid (Amine Odor)   |                  |                              |
| Flash Point                               | 170°C (338°F) ASTM D93      |                  |                              |
| Corrosivity                               | Amine = Corrosif            |                  |                              |



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## ■ 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. BMQ SOLUTIONS 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: 900 ml (30 oz.)

## ■ RECOMMENDED TOOLS

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

- Percussion drill with 3/8" drill bit
- 3/8" injection packers with zerk fittings
- Single component injection pump  
(Similar to the Titan 440E modified for polyurethane injection)  
*Please contact your local BMQ SOLUTIONS representative or approved applicator for details concerning equipment and its use.*

## ■ CLEANING

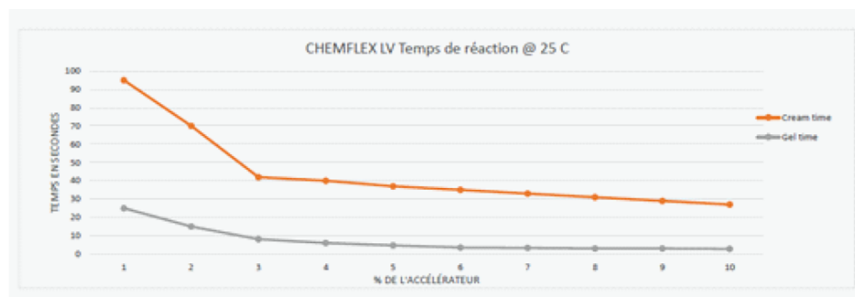
Use an appropriate polyurethane cleaner to clean all tools and equipment.

## ■ STORAGE

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

## ■ SAFETY

See Material Safety Data Sheet.



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

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