

SOLHYDWELD LOW PRESSURE

Two-component, 100% solids epoxy injection resin
for wicking into horizontal cracks without pressure

SOLHYDWELD LOW PRESSURE is a modified two-component 100% solids epoxy injection resin. SOLHYDWELD LOW PRESSURE is capable of penetrating into horizontal cracks as fine as 0.1 mm in thickness without the aid of pressure.

■ USES

SOLHYDWELD LOW PRESSURE is designed for crack injection on slab or microcracks to restore the structural integrity of cracked concrete structures.

TYPICAL USES:

- Parking garage structures
- Cracked concrete floor slabs
- Concrete base pads
- To rebond loose or detached floor tiles
- Large concrete surfaces with many cracks where pressure injection is not practical

■ PRODUCT FEATURES

- Easy to use
- Approved by Transport Quebec
- Excellent adhesion to concrete
- Normally no capping is required to contain epoxy when applied to the ground
- Penetrates easily without the use of pressure
- Consolidates and hardens concrete surfaces

■ SURFACE PREPARATION

In order for proper penetration of the SOLHYDWELD LOW PRESSURE, the mouth of the crack cannot be plugged with foreign materials. It is also good practice to clean the surface areas around the cracks to be treated, as this will aid in allowing the material to flow to the crack.

The method of injection is by gravity and this requires to build dams above the crack in order to ensure the penetration and proper repair of the crack. Hot wax from a glue gun is quick and simple method of doing this.

For treating isolated cracks, it is recommended to dam around the crack 12.5 mm (1/2") on either side for an 18" (450 mm) length, and to close the dam. Do not build dams longer than 18" (450 mm). Because of the changing level of the floor, it is preferable to build many dams. Reservoirs can also be created by drilling holes 1/2" (12,5 mm) in diameter at 12 to 18 inch (30 to 450 mm) intervals into the cracks.

■ PRIMING

No primer required.

■ ESTIMATING / YIELD

The estimate of the amount of material required will depend on the type of structure to be injected. BMQ SOLUTIONS recommend contacting an approved applicator for a more accurate estimate of the quantities required.

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

| | COMPONENT A RESIN | COMPONENT B HARDENER | MIXED A+B | CURING | | |
|-----------------------|----------------------|-------------------------|--------------|--|----------|------------|
| | | | | 10°C | 25°C | |
| Density | 1.11 | 1.00 | 1.08 | | | |
| Color | Clear | Amber | Amber | Pot life for A and B | - | 30 minutes |
| % solids | - | - | 100 % | Dry to the touch | 12 hours | 12 hours |
| Viscosity | 140 cps | 60 cps | 100±20 cps | Final cure | 48 hours | 24 hours |
| MIXING / RATIO | | | | Curing time is considerably longer at colder temperatures. | | |
| | A | B | | | | |
| Volume | 7 L | 3,5 L | | | | |
| PHYSICAL TESTS | | | | | | |
| Tensile Strength | 55 MPa (7,900 psi) | | | | | |
| Compressive Strength | 72 MPa (10,400 psi) | | | | | |



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■ PRODUCT MIXING

- Pour contents of “B” into “A” and mix well with a low speed mixer (max. 300 rpm) until one even color develops. Be sure to scrape sides and bottom of container.

■ PRODUCT APPLICATION

Once components are properly mixed, pour into each reservoir and let material penetrate. Reservoirs should be kept full until the material cures. Where a large number of cracks are located in a small area, the best method of application is to flood the surface area and squeegee the resin into the cracks.

■ CURING

SOLHYDWELD LOW PRESSURE is a self-curing material.

■ PRECAUTIONS / RESTRICTIONS

- SOLHYDWELD LOW PRESSURE should not be applied below (2°C) as full physical properties may not be reached.
- SOLHYDWELD LOW PRESSURE works well in dry or damp cracks, but it is incapable of displacing standing water. Every effort should be made to keep area as dry as possible.

■ PACKAGING

SOLHYDWELD LOW PRESSURE:

Packaged in 15L premeasured units.

■ CLEANING

Use ACETONE to clean all tools and equipment.

■ STORAGE

Store in a dry temperate area.

■ 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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