

**SEMI-RIGID PU INJECTION RESIN SYSTEM FOR PERMANENT WATERTIGHT SEALING**

**DESCRIPTION**

PENETRON INJECTION RESIN (SR) is a 2-component low-viscous, elastic, phthalate and solvent-free injection resin system to seal moist and dry cracks permanently, making a watertight system.

**RECOMMENDED FOR**

PENETRON INJECTION RESIN (SR) can be directly used to permanently seal cracks, voids and joints in concrete structures, brickwork, natural and artificial stonework. If the structure has water leakage, it is recommended to inject first with PENETRON INJECTION FOAM (F), followed by PENETRON INJECTION RESIN (SR), for a permanent watertight solution. Typical areas of application are:

- ▶ Tunnels
- ▶ Basements
- ▶ Diaphragm walls
- ▶ Manholes
- ▶ Reservoirs
- ▶ Water tanks
- ▶ Pools

**ADVANTAGES**

- ▶ Low viscosity helps ensure complete penetration inside cracks.
- ▶ Good bonding to moist and dry surfaces.
- ▶ Elastic and permanent seal helps to absorb limited movements.
- ▶ Can be injected through 1 or 2 compartment pump.

**TECHNICAL CHARACTERISTICS**

**Typical properties at 21°C (70°F)**

|                         | <b>Part A - Base</b>    | <b>Part B – Catalyst</b> |
|-------------------------|-------------------------|--------------------------|
| Color                   | Clear                   | Brown                    |
| Form                    | Liquid                  | Liquid                   |
| Density                 | 1,03 kg/L               | 1,23 kg/L                |
| Viscosity               | 100 – 300 cP            | 5 - 150 cP               |
| Application temperature | 5 – 40 °C (41 – 104 °F) |                          |

**Properties at standard mix ratio of A : B = 2 : 1 (by weight)**

|  |                 |
|--|-----------------|
| Pot life                                     | 30 – 60 minutes |
| Mixed viscosity                              | 100 - 300 cps   |
| Mixed density                                | 1,09 kg/L       |
| Full cure                                    | 7 days          |
| Shore A, Hardness (ASTM D2240 on cured film) | 80              |

All data are average values obtained under laboratory conditions. Impractical use, temperature, humidity and absorption of the substrate may influence the above given values.

**DIRECTIONS FOR USE**

**Application tools:** Use single-component injection pump. 2C injection pump can also be used for prolong life of the equipment.

**Note:** Substrates having water leakage or seepage should be injected first with PENETRON INJECTION FOAM (F) to stop the water leakage. Substrates with moist or damp cracks can be directly injected with PENETRON INJECTION RESIN (SR).

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**Surface preparation:** Make sure the injection surface is free from dust, oil, grease or any other foreign particles which could inhibit the bonding between material and the substrate.

**Mixing:** Add Part B (Catalyst) to Part A (Base) to form PENETRON INJECTION RESIN (SR), as per standard given ratio. Mix quickly and thoroughly by using a drill and paddle at slow RPM. Use only required quantity of this mixture for injection through a single-component pump.

**Application:** Using 1C pump, start injecting. For vertical surfaces, always inject from bottom to top. For horizontal surfaces, inject from one end to the other. Continue injection procedure until RESIN can be seen emerging out from adjacent packers. Upon completion of injection work and curing of RESIN, remove or cut packers and seal the drill holes by using cement or epoxy-based patching mortar.

#### SPECIAL CONSIDERATIONS

Once injection work is completed, immediately flush the pump and hose line with PENETRON PUMP FLUSH.

Contact PENETRON HELLAS S.A. for additional information, regarding your project.

#### PACKAGING

**Part A Base:** 19 L (5 gal) pails

**Part B Catalyst:** 8 L (2,1 gal) pails

#### STORAGE / SHELF LIFE

PENETRON® INJECTION RESIN must be stored in a dry enclosed area off the ground at a minimum temperature of 7°C (45°F). Shelf life, when stored in proper conditions in unopened, undamaged packaging, is 12 months.

#### SAFE HANDLING INFORMATION

KEEP OUT OF REACH OF CHILDREN. For further information please refer to Safety Data Sheet. PENETRON HELLAS S.A. has recently updated Safety Data Sheet on the safe use of PENETRON® products. Each Safety Data Sheet contains health and safety information for the protection of your employees and your customers.

#### WARRANTY - DISCLAIMER

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