PENETRON® INJECTION RESIN (SR)

Version, Penetron Hellas 17.08.2026

PRODUCT DATA SHEET

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 (70ºF)

	Part A - Base	Part B – Catalyst
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 ºC (41 – 104 ºF)	

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).

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 7ºC (45ºF). 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

PENETRON HELLAS S.A. warrants that its products are manufactured under certified ISO Standard procedures, are of excellent quality and shall be free from material defects and contain all components in their proper proportion. Should any of the products be proven defective, the liability to PENETRON HELLAS S.A. shall be limited to replacement of the material proven to be defective, since the standard application procedures have been met and the suitability of the product for the particular application have been proven. PENETRON HELLAS S.A. makes no warranty as to merchantability of fitness for a particular purpose. User, after contacting the distributor of the product, shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith. While every care has been taken, the information provided in this product's data sheet make no part of any contract. All recommendations, technical data and test data contained in this product's data sheet are based upon the results of control laboratory tests or in actual field tests. However, PENETRON HELLAS S.A. makes no warranty of any kind, concerning this data. In any case, this data is given in good faith based in the PENETRON HELLAS S.A. experience, till the publication of this sheet. Due to variance in storage, handling and applications of the materials, PENETRON HELLAS S.A. accepts no liability for the results obtained. It is suggested that potential users try small applications to determine the suitability of each individual product for their specific requirements. The users should always refer to the most recent edition of the product's data sheet. PENETRON HELLAS S.A. may particularly differentiate its versions of the product's data sheet compared with those of PENETRON INTERNATIONAL LTD or respective PENETRON companies worldwide. These changes are due to text formatting, different application weathering and procedures or different product names and aim at the optimal consumer information.

PENETRON HELLAS S.A.
G.E.M.H. No: 07278001000
Athens Headquarters - Greece
50, Thrakomakedonon Ave.
136 79 Acharnes, Greece
Call Center: +30 210 2448250
info@penetron.gr, www.penetron.gr