PRODUCT DATA SHEET

PENETRON® INJECTION FOAM (F)

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FLEXIBLE POLYURETHANE INJECTION SYSTEM FOR RAPID WATER STOPPING

DESCRIPTION

PENETRON® INJECTION FOAM (F) is a rapid foaming, solvent free, water reactive polyurethane injection foam system. When reacted with a catalyst it forms a dense, flexible, fine cellular foam to temporarily stop water leakage.

RECOMMENDED FOR

PENETRON® INJECTION FOAM (F) is recommended to stop water penetration from cracks, voids and joints in concrete structures, brickwork, and natural and artificial stonework. To achieve permanent sealing PENETRON® INJECTION RESIN should be injected subsequently. Typical areas of application are:

- Tunnels
- Basements
- Diaphragm walls
- Manholes
- Reservoirs
- Water tanks
- Pools
- Soil Stabilization

ADVANTAGES

- Long pot life when mixed component is kept in closed condition.
- Unconfined expansion volume is more than 15 times.
- Reacts only in contact with water and humidity.
- Excellent bonding to wet surfaces.

TECHNICAL CHARACTERISTICS

Typical properties at 21°C (70ºF)

	Part A - Base	Part B – Catalyst
Color	Brown	Colorless, water white
Form	Liquid	Liquid
Density	1.16 kg/L	0.99 kg/L
Viscosity	100 – 400 cP	25 - 100 cP

Properties at standard mix ratio of A : B = 20 : 3,4 by weight of resin to catalyst [5 : 1 by volume at 20ºC (68ºF)]:

Foam start time	5 seconds
Foam end time	20 seconds
Max volume expansion	15 - 20 times (unconfined)
Pot life (when not in contact with water)	> 2 hours in closed condition
Application temperature	5 to 40º C (41 to 104ºF)

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 compartment injection pump.

Wet conditions: Using the standard given ratio, measure out the required amounts of Part B (Catalyst) and Part A (Base). Under mixing, add Catalyst to Base to form PENETRON® INJECTION FOAM (F) and mix thoroughly. Use only required quantity of this mixture for injection through single-component pump.

Dry conditions: After installing packers, flush the cracks with water thoroughly to wet the injection area. Using the standard given ratio, measure out the required amounts of Part B (Catalyst) and Part A (Base). Under mixing, add Catalyst to Base to form PENETRON® INJECTION FOAM (F) and mix thoroughly. Use only required quantity of this mixture for injection through single-component pump.

Note: Foam reaction and expansion volume depends upon velocity of water, surrounding temperature, material temperature, pressure and flow rate. For permanent sealing, use PENETRON® INJECTION RESIN.

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: 3,8 L (1 gal) jugs

STORAGE / SHELF LIFE

PENETRON® INJECTION FOAM (F) 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.

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