

PENETRON INJECTION FOAM (F)

FLEXIBLE POLYURETHANE INJECTION RAPID WATER STOPPING MATERIAL

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.

APPLICATIONS

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. Applications include tunnels, basements, diaphragm walls, manholes, reservoirs, water tanks, pools, soil stabilization, etc.

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.

DIRECTIONS FOR USE

Application tools: Use single compartment injection pump.

Wet conditions: Add catalyst to PENETRON INJECTION FOAM (F) as per standard given ratio. Mix quickly and 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. Add catalyst to PENETRON INJECTION FOAM (F) as per standard given ratio. Mix quickly and 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.

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

TECHNICAL DATA

Typical properties @ 21°C (70°F):

	Part A – Base	Part B - Catalyst
Color	Brown	Colorless, water white
Form	Liquid	Liquid
Density	1.16 kg/l	1.07 kg/l
Viscosity	100 - 400 cP	25 - 100 cP

Properties @ standard mix ratio of A : B = 20 : 1.5 by weight of resin to catalyst [12.3 : 1 by volume @ 20°C (68°F)]:

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)	5 - 9 hours in closed condition
Application temperature	5 to 40°C (41 to 104°F)

PACKAGING

Part A Base: 19-liter (5-gallon) pails

Part B Catalyst: 1.54-liter (1.63-quart) jugs

STORAGE / SHELF LIFE

PENETRON INJECTION FOAM (F) 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. Refer to SDS before handling this product.

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