



## REDWOP PU 200

Semi rigid flexible Foam Polyurethane Injection Resin

### Description

REDWOP PU-200 is a hydrophobic polyurethane based foam resin used for injection into concrete structures exhibiting water seepages. It is a single component hydrophobic resin that reacts to form a closed cell, semi-rigid, non-corrosive foam when it comes in contact with water. It provides an extended working time to ensure complete penetrability into the elements being injected without premature foaming. It is used to stop water seepages through concrete structures such as basement retaining walls, water supply facilities, tanks, cooling towers, sewage treatment plants, lift/elevator wells, slab/raft construction joints. It is injected using appropriate high pressure injection equipment from the "negative side".

### Uses

- For permanent watertight sealing in concrete, brickworks and natural stones

### Advantages

- Non shrink grout
- Good penetration in to cracks
- Chemical resistance
- Long lasting
- Solvent free eco friendly

### Method of application

- Identify the area to be injected.
- Install injection packers of suitable diameter and length.
- Ensure injection packers are tightly installed to avoid packer failure during injection process.
- If required, seal packers using quick setting cement or epoxy based putty.
- Feed the resin into the pump and commence injection.
- Injection pressure shall be governed by the type of element, effective water head, packer spacing and other factors.
- For injection below raft slab, grade slab and retaining walls inject in intermittent batches and observe effect.
- Avoid large volume injections in short period.



## Technical Information

Properties	Results
Appearance	Dark brown liquid
Viscosity in mpa.s @23°C	140
Density gm/cm <sup>3</sup> @23°C	1.22 to 1.26
Volume Expansion	Up to 20 times (Resin : Water = 10 : 1) @ 25°C
Reaction Time	Up to 300 seconds. (depending on temperature)
Pot life	Up to 30 minutes. @ 230C (surface film that forms upon humidity contact to be discarded and not mixed in)
Application Temperature	> 5°C (substrate temperature during injection)

REDWOP PU 200 / Water	Start foaming time	End foaming time	End product
10:1	30 to 45 sec	480 to 600 sec	Semi rigid flexible foam

- **Note:** Above all data of reaction was performed under 200C. Actual data will vary water mentioned above if water content in structure.

## Cleaning

Clean all tools and equipment with cleaning agents immediately after use.

## Coverage

- Coverage will depend on actual length, width and depth of crack.

## Packaging

- REDWOP PU 200 is supplied in 10 kg container.

## Storage

- Minimum of 6 months shelf-life if kept under cool dry place under temperature 5 to 30°C.

## REDWOP CHEMICALS PVT. LTD.

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