

WC ULTRASEAL PU

INJECTION WATER STOPPING
POLYURETHANE RESIN

DESCRIPTION:

WC ULTRASEAL PU is a low viscosity water reacting MDI based Polyurethane resin. By adding certain amount of ULTRASEAL PU ACC amine based catalyst, WC ULTRASEAL PU will expand into rigid closed cell foam when contact with water. The resin is formulated to meet the leak repair requirement, filling of joint or cracks in concrete structure, gravel layer.

CHARACTERISTICS:

High expansion ration up to 25 times.
Form closed cell polyurethane foam.
Insoluble in water, react with saline and mineral water.
Non-flammable, suitable use in the tunnel
Low viscosity – easy for crack injection
Variable reaction times, depending on the hydrostatic pressure.
Sealing under water, running water conditions.
Non-toxic when fully cured
Solvent free and fully cured.

USES:

Filling of large voids and joints in rock fissure, gravel layer
Used for soil stabilization
Leak repair in concrete structure such as:

- Basement wall/floor
- Sewage plant tunnel
- High-way concrete slab kitchen
- Water tank, swimming pool
- Dam, reservoir
- Underground
- Wet area, toilet,

POLYURETHANE RESIN

INSTALLATION:

WC ULTRASEAL PU is generally as a single component resin, the gel time varies with a certain percentage of accelerators **WC ULTRASEAL PU ACC**. Adaptable reaction time varies with the **WC ULTRASEAL PU ACC** in the ration of 2% to 10%. For crack injection, use low-pressure hand-operated pump for small application and through high pressure airless conventional pump on large project. Use necessary mechanical packer for crack injection.

CLEANING OF TOOLS:

Tools must be cleaned immediately after use with thinner.

PACKAGING:

WC ULTRASEAL PU : 20kg/ metal drum
WC ULTRASEAL PU ACC : 2kg/ plastic can

STORAGE/SELF LIFE:

It should be stored at temperature in the range of 10 – 35 °C. Safe life should be at least 12 months in original unopened when stored correctly. Temperatures above 50°C may cause accelerating in formation of insoluble solid. Partly used drums should be tightly sealed to prevent moisture form entering.

TECHNICAL DATA:

	WC ULTRASEAL PU	WC ULTRASEAL PU ACC
Appearance:	Brown	Translucent
Density at 25 C	1.14	0.97
Viscosiy at 25 C	80-120 Cps	30-40 Cps
Flashpoint at 25 C	>180 C	>130 C

REACTION TIME:

Accelerator Addition (%)	Induction Time in Second	Gel Time at 25 C
2	30	30 min., 20 sec.
5	19	58 seconds
10	17	40 seconds

Health & Safety:

- **WC ULTRASEAL PU** is physiologically harmless.
- Keep the uncured mixture away from eyes, mouth and skin.
- Do not inhale vapour. Protective gloves should be used when handling these products.
- Splashed on skin should be washed with soap and plenty of water immediately.
- Do not use solvent. The use of goggles is recommended, however should accidental eye contamination occur, rinse thoroughly with plenty of clean running water and seek medical treatment immediately