

## Euro Inject PU



Low viscosity polyurethane injection resin for crack sealing

### Description

Euro Inject PU is a highly reactive polyurethane injection resin formulated to expand upon contact with water and form effective seal against flow of water

### Advantages

- ease of use
- low viscosity allows penetration into the finest cracks
- suitable for sealing under wet, running water conditions
- shrinkage-free cure
- provide long term protection
- high expansion ratio (up to 30 times)
- good chemical resistance



### Uses

- to seal leaking live cracks, movement joints in:
  - tunnels, reservoirs, basement, manholes
- to seal and fill defective concrete (honeycombs, voids, etc.)

### Instruction for Use

#### Design Criteria

Euro Inject PU is designed to stop the movement of water in cracked concrete at crack widths of between 0.2mm to 7mm depending on water flow and pressure.

#### Substrate preparations

If water flow permits, clean the surface adjacent to the cracks. Remove any dust, unsound concrete and any material that may have separating effect to the injection resin.

#### Fixing Injection Packers

Drill 15-22mm diameter holes at a 45° angle and install packers at intervals along the length of each crack. The distance between each packer will depend upon the width and depth of the crack. Spacing shall be close enough to ensure that the resin will penetrate along the crack to the next point of injection. This will normally be between 200mm and 500mm. In the case of a wall or slab which is cracked all the way through, packers shall be located on both sides with those at the back placed at midway points between those at the front.

#### Mixing

Thoroughly mix the accelerator with the base resin. Adaptable reaction time is possible by varying the Euro Inject PU Accelerator ratio from 2% - 10%. Use the following reaction time as a guide:

#### Application

Injection works shall commence at packer attached to the lowest point on vertical cracks or to either end of horizontal cracks. Each crack shall be treated in a single, continuous operation. Attach injection hose to the first packer and pump Euro Inject PU for approximately 45 seconds and then pause to allow the material to flow into all the cracks. Keep pumping, watch for material flow and water to appear at the surface of the next packer. When movement stops or Euro Inject PU resin appears at the next packer, stop and detach hose from packer. Move to the next packer and repeat the injection process.

#### Packaging

Euro Inject PU                    20kg  
Euro Inject PU Accelerator    2kg

Euro Inject PU Accl	1%	2%	5%	10%
<b>Cream time</b>	73 sec	55 sec	24 sec	20 sec
<b>Rise time</b>	8 min	4min 45sec	115 sec	63 sec
<b>Expansion rate</b>	1000%	1500%	2500%	3000%

#### Technical Properties

Properties	Value
<b>Euro Inject PU</b>	
<b>Color</b>	Clear brownish liquid
<b>Specific gravity @25OC</b>	1.10
<b>Viscosity @25OC</b>	180 – 220 cps
<b>Flashpoint</b>	>180 OC
<b>Euro Inject PU Accelerator</b>	
<b>Color</b>	Colourless liquid
<b>Specific gravity @25OC</b>	1.0
<b>Viscosity @25OC</b>	25 – 35 cps
<b>Flashpoint</b>	>180 OC