



MATERIAL DESCRIPTION

Durainject pu is a two-component, solventless, low-viscosity liquid adhesive for pressure injection grouting. Durainject pu was developed specifically for use with the Structural Concrete Bonding Process (SCBP) and is available only through certified applicators of this process.

AREAS OF APPLICATION

- Structurally re-bonding cracked concrete sections.
- Filling porous or honeycombed concrete or grout.
- Anchoring bolts, dowels and reinforcing bars.
- Grouting areas pre-packed with aggregate to form bearing supports.

CHARACTERISTICS AND BENEFITS

- Low viscosity - excellent penetration of fine fissures.
- Resistance to creep and stress relaxation - due to high heat deflection temperature.
- Fast cure rate - fast return to loaded conditions.
- Bonds in wet and cold conditions - excellent adhesion even under adverse conditions.

PROPERTIES

	Part A	Part B	Mixed
Form	Liquid	Liquid	Liquid
Colour	Clear	Transparent yellowish	Transparent yellowish
Specific Gravity @ 25oC,kg/m3	1200	1000	1130
Mixing Ratio (by volume)	2	1	
(by weight)	100	30	
Viscosity,cps @ 23oC	625		
Application temperature range	8-35oC		
Minimum cure temperature	0oC		
Properties of cured material Tested at 23oC			
Tensile strength, MPa (EN ISO 527-1; -2)	56		
Tensile elongation, % (EN ISO 527-1; -2)	4.4		
Flexural strength, N/mm2 (ASTM D790)	82.7		
Compressive strength (EN ISO 12190)	110		

APPLICATION

For Durainject pu injection resins, the crack faces inside the concrete are considered to be the «substrate». The substrate may be moist or even totally soaked with water, such as in water-filled cracks. Though the adhesion of the injection resin on water-saturated substrates will still be sufficient, a slight decrease of the adhesion characteristics as compared to applications



in dry concrete will occur.

Substances preventing the proper adhesion of the resin to the substrate, such as oil, marine-growth, etc., have to be removed using appropriate techniques such as ultra-high pressure water jetting, flushing with detergents, etc. The resin is mixed and installed, using the model 20-3N injection-equipment (or other suitable pressure injection equipment), which forms an integral part of the SCBP, available through Drylex Applicators only.

ESTIMATING DATA

Usage is dependent on the crack volume and best determined by onsite trials.

PACKAGING

Durainject pu in units of 16 kg.

SHELF LIFE

Durainject pu has a shelf life of 12 months. Store out of direct sunlight, clear of the ground on pallets protected from rainfall.

PRECAUTIONS

For the full health and safety hazard information and how to safely handle and use this product, make sure that you obtain a copy of the Safety Data Sheet (SDS) from our office or website.