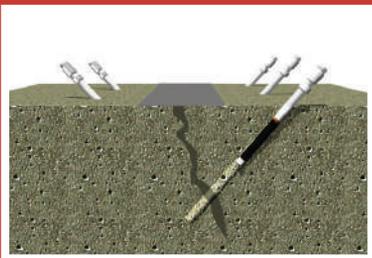


# High Performance Resin Injection Systems

# X-CALLIBUR<sup>®</sup> INJECTION SYSTEMS



## Injection Grouts and Ancillaries



# Injection Grouts and Ancillaries

## X-INJECT WS100

Low viscosity, foaming, polyurethane injection resin to stop water leaks in concrete.

### Uses:

- Temporary sealing of flowing water leaks in concrete structures.
- Injection of X-Inject WS100 should be followed by injecting a permanent seal using X-Inject PU211 or X-Inject PU221.



X-Inject WS100  
(Base:Catalyst 10:1 by volume)

## X-INJECT PU211 & PU221

Low viscosity, flexible polyurethane injection resin system for dry, damp or wet cracks in concrete.

### Uses:

- Permanent, flexible sealing of cracks in concrete structures.
- Liquid retaining structures
- Sewage treatment plants
- Basements
- Beams, slabs, columns
- Construction joints

When used in conjunction with X-Inject WS100 provides an effective system for sealing cracks with flowing water.



X-Inject PU211  
(Base:Hardener 1:1 by volume)



X-Inject PU221  
(Base:Hardener 2:1 by volume)

## X-INJECT PU311 & PU321 Stop N Seal

Dual function flexible, polyurethane injection resin to stop water leaks and seal cracks in concrete.

### Uses:

- Stopping water leaks in concrete
- Permanent, flexible sealing of damp and wet cracks in concrete and structures
- Liquid retaining structures
- Sewage treatment plants
- Basements
- Beams, slabs, columns
- Construction joints

X-Inject Stop N Seal 311 & 321 will foam in contact with water and stop leaks. When no water is present X-Inject Stop N Seal 311 & 321 is used to provide a permanent for seal cracks and voids.



X-Inject Stop N Seal 311  
(Base:Hardener 1:1 by volume)



X-Inject Stop N Seal 321  
(Base:Hardener 2:1 by volume)

## X-INJECT PU411 High Strength

High compressive strength polyurethane resin for dry, damp & wet cracks in concrete to provide a rigid, structural seal.

### Uses:

- Permanent sealing of cracks in concrete
- Beams
- Columns
- Slabs



X-Inject PU411 High Strength  
(Base:Hardener 1:1 by volume)

## X-INJECT AP511 Super Gel

Very low viscosity, hybrid acrylic-polyurea gel for sealing water leaks in below-ground structures and stabilizing the surrounding ground.

### Uses:

- Curtain injection in basement slabs & walls
- Reinstatement of failed waterproof membranes
- Sealing fine cracks, kicker and construction joints



X-Inject AP511 Super Gel  
(Base:Hardener 1:1 by volume)

## X-INJECT PU611 Strong Foam

Rapid foaming, short pot life polyurethane resin.

### Uses:

- Secant piles
- Diaphragm walls
- Cut and cover tunnels
- Bored tunnels
- Basements
- Rapid foaming resin for stopping high volume & pressure water leaks



X-Inject PU611 Strong Foam  
(Base:Hardener 1:1 by volume)

## X-INJECT EP200 & EP211

Low viscosity epoxy injection resin.

### Uses:

- Injecting cracks in concrete structures to provide a rigid, structural seal.
- Sealing of cracks and crazing.
- Thin <10mm gap, base-plate grouting.
- Anchoring of small diameter rebar and studs.



X-Inject EP200  
(Base:Hardener 2:1 by volume)



X-Inject EP211  
(Base:Hardener 1:1 by volume)

## X-INJECT UFC

Injection grouts based on ultrafine cement with added dispersant

Available in 2 grades with a Blaine Fineness of 1600 or 1900 m<sup>2</sup>/kg

### Uses:

- Geotechnical grouting
- Crack and void injection in concrete.



X-Inject UFC  
(25kg + UF Dispersant)

## X-INJECT Surface Sealer

Epoxy resin-based surface sealer and crack filler.

### Uses:

- Sealing cracks in concrete preventing the escape of resins during the injection process.
- Fixing surface mounted injection packers to concrete surfaces.



X-Inject Surface Sealer  
(Twin cartridge)

## X-ROC WaterPlug

Ultra-fast setting cement-based waterstopping mortar

### Uses:

- Stopping water leaks from cracks, voids & joints in concrete structures
- Usually used in conjunction with one or more of the above resin injection systems



X-Roc WaterPlug  
(Single pack +water)

# X-INJECT Packers

## Aluminum Packers

Sizes

- 13 x 100mm
- 13 x 150mm

**Uses:** For ensuring the injected materials reach, and remain, in the desired location with the minimum of resin wastage.



## Steel Packers

Sizes

- 13 x 100mm
- 10 x 95mm

**Uses:** For ensuring the injected materials reach, and remain, in the desired location with the minimum of resin wastage.



## Hi-Flow Packers

Sizes

18mm diameter x 150 to 350mm.

**Uses:** When high volumes of resin need to be injected into leaking structures.



# X-INJECT Pumps

## Electric

### Single Component

For injection resins with long pot life (+30 minutes at 25°C.) Suitable for epoxy and polyurethane based resins.



## Air Driven

### Single Component

For injection resins with long pot life (+30 minutes at 25°C.) Suitable for epoxy and polyurethane based resins.



## Air Driven

### Two and Three Component

With 1:1 by volume mixing ratio. For injecting a wide range of injection materials - polyurethanes, acrylics, epoxies.



*Call X-Calibur for advice on pump and packer selection.*

