

## 301 Epoxy Resin and Hardener

**301 Epoxy Resin and Hardener** is a two component thixotropic solvent free epoxy Material used for injection applications, bonding of dissimilar materials and for use in conjunction with a range of tapes and fabrics to produce high strength composite repairs.

The product can be applied to manually prepared surfaces and is ideal for encapsulating problem pipework ranging from 1"-36" diameter, once cured the system can resist up to 300psi pressure. For injection applications the material can be pumped into voids up to 15mm in depth.



### Main characteristics -

- Two component
- Solvent free epoxy
- Usable life 25 minutes (20°C)
- Touch dry 90 mins (20°C)
- Full cure 5 days (20°C)
- Up to 300psi pressure tolerance (3 x Wrap of glass tape)
- Applied by brush or applicator tool
- Available in 1kg, 3kg, 30kg pack sizes
- Tolerant of less than ideal surface preparation

### Mechanical Properties –

#### Adhesion

Tensile Shear to ASTM D1002      148kg/cm<sup>2</sup>      (2100psi)

#### Compressive strength

Tested to ASTM D 695      1034kg/ cm<sup>2</sup>      (14,700psi)

#### Corrosion Resistance

Tested to ASTM B117      Minimum 5000 hours

#### Flexural Strength

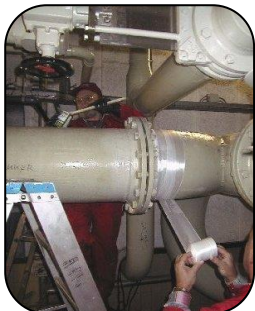
Tested to ASTM D790      912kg/cm<sup>2</sup>      (13,000psi)

#### Heat Resistance

Suitable for water immersion up to 70°C and intermittent contact with steam up to 120° (when used with glass tape, dry heat resistance up to 150°C.



Eroded gas main repaired using 301 Epoxy Resin and Hardener and 3 x wraps of Glass Tape



Main fire water lines encapsulated using 301 Epoxy Resin and Hardener and 3 x wraps of Glass Tape



Badly corroded sea water lines encapsulated using 301 Epoxy Resin and hardener and 3 x wraps of Glass Tape