

Pipe Repair Systems

The Resimac pipe repair systems consist of the following product ranges –

- Composite repair – based on GRP technology
- Metal Repair – based on solvent free 100% solids epoxy technology

The product can be used for emergency repairs or as part of planned maintenance shutdowns to seal leaking pipe work, flange faces and welded seams.

The type of repair that can be performed using these materials can range from emergency short term fix to semi-permanent encapsulation of low pressure pipeline systems

Pipe repair systems information

These types of pipe repair have been used for many years in all areas of industry. Typically they are seen as short to mid-term solutions for problematic pipe surfaces that have been badly corroded or eroded. In low pressure applications (up to 100psi) the products are proven to give over 15,000 hours of protection to lines transporting weak or low level industrial chemicals or water.

The Resimac Pipe Repair Systems can be applied to the following types of substrate –

- Concrete (composite repair only)
- Steel
- Plastic (composite repair only)

The maximum pressure tolerance that can be achieved using Resimac pipe repair systems is 300psi.

The repair systems are simple and easy to use and are based on the latest solvent free epoxy technology. They can be used in confined space without the need for expensive air fed equipment for the applicators and come in a range of grades that can include extra fast curing to the repair procedure.

Metal Repair Systems – 101 Metal Repair Paste, 106 Metal Repair Paste XF, 107 Metal Repair Paste XL

These products are ideal for bonding formed metal plates to holed or weeping pipe surfaces. The materials are available in a range of grades from fast cure to extended working life for hot surfaces. Typically these products can be applied to hand prepared, mechanically ground or abrasive blast cleaned surfaces with a pressure tolerance range from 20 – 300psi.

Composite Repair Systems – 301 Epoxy Resin and Hardener, 302 Epoxy Repair Cement, 701/702/703 Glass tape (50mm – 100mm)

These products are used for encapsulating long lengths of problematic pipework where the steel wall has been thinned due to corrosion or erosion. The materials are surface tolerant and can be used on pipe diameters up to 36". Once cured they can give up to 300psi pressure tolerance on abrasive blast cleaned surfaces.



Products that can be used for this type of repair include -

101 Metal Repair Paste

Paste grade metal filled epoxy for adhering formed steel plates

106 Metal Repair Paste XF

Fast curing paste grade metal filled epoxy for adhering formed steel plates

107 Metal Repair Paste XL

Extended working life metal filled epoxy paste for adhering formed metal plates to hot surfaces

301 Epoxy Resin and Hardener

Multi-purpose epoxy repair gel for use with glass fibre matting or fillers

302 Epoxy Repair Cement

A surface tolerant fairing compound for filling pitted and scarred pipe surfaces

701/702/703 Glass tape

Woven glass scrim

Repair

Protect

Upgrade

Low pressure repairs 75psi or below, hand surface preparation with composite repair systems

These types of repair can be used on small diameter pipework carrying low temperature mild industrial chemicals and water. Ideally, surfaces would be degreased using a suitable degreaser or solvent and then the surface of the pipe abraded using a wire brush or sandpaper.



Low pressure repairs 100psi or below, mechanical surface preparation with composite repair systems

These types of repair can be used on 1" to 12" diameter pipework carrying industrial chemicals, water, effluent or sewage up to 60°C. Surfaces must be degreased prior to and after abrading using a suitable degreaser or solvent. Typical preparation equipment used includes rotary wire brush, angle grinder or MBX bristle blaster.



Higher pressure repairs up to 300psi or below, abrasive blast cleaning with composite repair systems

These types of repair can be used on 1" to 36" diameter pipework carrying industrial chemicals, water, effluent or sewage up to 60°C. Surfaces must be degreased prior to and after abrading using a suitable degreaser or solvent. Standard surface preparation guidelines are SA2.5, 75 micron profile using angled grit.



Low pressure repairs 75psi or below, hand surface preparation with metal repair systems

These types of repair can be used on small diameter pipework carrying low temperature mild industrial chemicals and water. Ideally surfaces would be degreased using a suitable degreaser or solvent and then the surface of the pipe abraded using a wire brush or sandpaper.



Low pressure repairs 100psi or below, mechanical surface preparation with metal repair systems and formed metal plate

These types of repair can be used on any diameter pipework carrying industrial chemicals, water, effluent or sewage up to 60°C. If repairing a hole to the pipe surface the steel plate must be oversized by 200mm in all directions, for weeping surfaces or cracks then the plate must cover the length of the repair and be oversized by 200mm in all directions. Surfaces must be degreased prior and after abrading using a suitable degreaser or solvent. Typical preparation equipment used includes rotary wire brush, angle grinder or MBX bristle blaster.



Higher pressure repairs up to 300psi or below, abrasive blast cleaning with metal repair systems and formed metal plate

These types of repair can be used on any diameter pipework carrying industrial chemicals, water, effluent or sewage up to 60°C. Surfaces must be degreased prior and after blasting using a suitable degreaser or solvent. Standard surface preparation guidelines are SA2.5, 75 micron profile using angled grit. The formed steel plate will need to be oversized by 50mm in all directions for holed, cracked or weeping pipe surfaces.

