

## TECHNICAL DATA SHEET

# SYLWRAP HD HEAVY DUTY PIPE REPAIR



### DESCRIPTION

Sylmasta Heavy Duty Pipe-Wrap is a resin impregnated glass fibre-reinforced repair tape designed for the rapid repair of cracks and leaks in pipework in high pressure (up to 30 bar) and high temperature situations (up to 250°C). It requires no mixing, it is easy to use, and repaired items can be returned to service in less than thirty minutes.

It is available in 6 sizes: 25mm x 1.8m, 50mm x 1.8m; 75mm x 2.7m, 100mm x 3.6m and 150 x 5m, 150 x 10m, enabling repairs to be carried out on pipework up to 150mm outside diameter. The cured material is chemically inert and is non-toxic.

### PIPE REPAIR:

**Steel and Aluminium Works:** Steam and water pipes, sludge and slurry lines

**Petroleum Plants:** Repair on flammable pipe leaks without using tools - oil, gas, water supply lines

**Power Stations:** Ash transfer systems, pulverized fuel tubes, cooling water lines.

**Manufacturing:** Sealing of leaks in oil, water and coolant pipes.

**Pipe Porosity:** Strengthens and seals pipes with porosity due to internal corrosion.

**Merchant Shipping, Yachts:** Emergency repairs in dock or whilst at sea to fuel lines, water pipes, waste pipes. Also for repairs to ship's structure.

### CORROSION & WEAR PROTECTION

#### Anti-Corrosion, Pipe Protection:

Protect pipes from environmental corrosion and salt water corrosion.

#### Wear Protection:

Gravel and sand plants, quarries, sugar mills and grain hoppers and coal chutes. Protects pipes and metal parts against abrasive wear.

#### Concrete and Steel Protection:

Protects concrete pillars and steel structures from salt corrosion.

### TECHNICAL DATA

**Working time:** . . . . . 2 minutes, dependent upon temperature of water and pipework

**Cured material life:** . . . . . 5+ years, dependent upon repair quality, environmental condition, pipe temperature etc.

**Initial cure time:** . . . . . 7-10 minutes

**Full cure:** . . . . . 30-45 minutes

**Shore D hardness:** . . . . . 70

**Coefficient of thermal expansion:** . . . approx.  $19 \times 10^{-6}$  per °C

#### Service conditions:

**Max. service temperature:** . . . . . 250°C / 480°F (SylWrap has been used at 250°C with steam at 20 bar for a 2 week temporary repair and at 200°C at 20 bar for 6+ weeks)

**Pressure resistance:** . . . . . 30 bar (3 MPa), depending on size of pipe and leak (hole may require epoxy filler first).

**Chemical resistance:** . . . . . Acetone, ammonia, sulphuric acid (30%), ethyl alcohol, mineral spirits, gasoline, MEK, toluene, diesel, hydrochloric acid, Varsol, ethylene glycol, crude oil, hydraulic oil (test period of 40 days).

### STORAGE

Sylmasta Pipe-Wrap HD should be stored unopened in its original foil packaging in cool, dry conditions. Under such conditions it will have a shelf life of at least 36 months from date of manufacture.

### PRESENTATION

Sylmasta Pipe-Wrap is available in five sizes:

SYL106HD Sylmasta Pipe-Wrap, 25mm x 1.8m (for up to 15mm o.d. pipes with limited access)

SYL206HD Sylmasta Pipe-Wrap, 50mm x 1.8m (for up to 25mm o.d. pipes)

SYL309HD Sylmasta Pipe-Wrap, 75mm x 2.7m (for up to 75mm o.d. pipes)

SYL412HD Sylmasta Pipe-Wrap, 100mm x 3.6m (for up to 100mm o.d. pipes).

SYL616HD Sylmasta Pipe-Wrap, 150mm x 5.0m (for up to 150mm o.d. pipes).

SYL633HD Sylmasta Pipe-Wrap, 150mm x 10.0m (for 300mm o.d. pipes, and larger pipes when used in multiples).

### HEALTH & SAFETY IN USE

Sylmasta Pipe-Wrap contains a urethane pre-polymer, which is not classified as hazardous. However, plastic gloves should be worn to avoid unnecessary skin contact with the uncured material. If working on 'live' pipework take every safety precaution necessary to avoid risk of exposure to the leaking material. For further health and safety information please refer to the relevant Safety Data Sheet.