

# SYLWRAP

## Pipe Repair Contractor Case

### Description

The **SylWrap Pipe Repair Contractor Case** makes up to six permanent pipe repairs even when pressure **cannot** be turned off. Repairs can be made in under 30 minutes to steel, copper, malleable iron, GRP, ceramic, most plastics, concrete, rubber and lead.



A number of Contractor Cases are available covering pipe diameter ranges from 15mm to 600mm, offering greater flexibility than a single Pipe Repair Kit for one pipe size. The robust Case keeps all the products in optimum condition and is easily stored on-site on the van, enabling rapid response to emergencies as soon as they arise.

Repairs can be built to have pressure resistance up to 30 bar, temperature resistance up to 250°C and are effective on pipes carrying hot and cold water and chemicals. The Contractor Case has WRAS approval, meaning it is safe to use on pipes carrying drinking water.

### Kit Contents and Directions for Use

Each Contractor Case contains multiple **Wrap & Seal Pipe Burst Tapes**, **SylWrap HD Pipe Repair Bandages** of various sizes and **Superfast Epoxy Putty**.

If pressure cannot be turned off, Wrap & Seal is used to seal the live leak. The self-amalgamating silicone tape stretches by three times its length, bonding to both the pipe surface and itself as it is wrapped.

Once fused, it forms a solid rubber band which maintains pressure over the leak, thus sealing it. Multiple Wrap & Seals applied on top of each other will fuse together, capable of building pressure resistance up to 30 bar.

If pressure can be turned off, the Putty is used to seal the leak. It is kneaded by hand until it turns a uniform colour and is then pushed into holes and cracks. Within 5-10 minutes, it will harden to fill the damage with a watertight material.

The initial sealant is then overwrapped with SylWrap HD. Wetting the bandage activates the resin within the wrap. SylWrap HD is wrapped and smoothed over the repair area, where it will set after around 5 minutes to form an impact resistant protective shell around the pipe.



*When pressure cannot be stopped, pipe burst tape is wrapped tightly around the leak area*



*When pressure can be stopped, epoxy putty fills in holes, cracks and missing sections*

### Advantages

- Case is easy to store on-site or on the van, enabling repairs to take place as soon as leaks are identified
- No need to shutdown systems to make live leak repair
- Repairs possible on pipes up to 600mm diameter
- Effective on elbows, tees, saddles and other complex shapes
- Repairs can be made pressure resistant to 30 bar and temperature resistant to 250°C

### Applications

**Water and wastewater:**

Strengthen older pipes before they burst and reinforce leak repairs on water networks

**Petrochemical plants:**

Reinforce degraded pipes from the outside without using tools or shutting down systems

**Heavy industry use:**

Refurbish and protect pipes in highly abrasive environments

**Power stations and oil rigs:**

Effective on oil, gas, water and coolant pipes

**Marine:**

Fuel lines, water and waste pipe repairs to ships, yachts and boats in dock or whilst at sea

### Storage

All products should be kept inside the robust red case in cool, dry conditions. SylWrap HD Bandage should kept unopened in its original foil pouch. Piercing or damaging the pouch will cause SylWrap to cure prematurely. Under such conditions, the SylWrap Pipe Repair products have a shelf life of at least 24 months from date of manufacture.

Whilst all reasonable care is taken in compiling technical data on the Company's products, all recommendations or suggestions regarding the use of such products are made without guarantee, since the conditions of use are beyond the control of the Company. It is the customer's responsibility to satisfy themselves that each product is fit for the purpose for which they intend to use it, that the actual conditions of use are suitable and that in the light of our continual research and development programme the information relating to each product has not been superseded.

## Technical Data

<b>SylWrap Working time</b> .....	2-5 minutes depending upon temperature
<b>Cured material life</b> .....	10-20 years depending upon repair quality, repair thickness, condition of pipe, environmental conditions, pipe temperature, etc. Consult Sylmasta for further information and design life for specific applications
<b>Functional cure</b> .....	30-45 minutes
<b>Full cure (maximum properties)</b> .....	24 hours
<b>Coefficient of thermal expansion</b> .....	$7.1 \times 10^{-5} / ^\circ\text{C}$ (SylWrap composite wrap)
<b>Service conditions</b>	
<b>Max service temperature</b> .....	250°C / 480°F using Wrap & Seal and SylWrap HD (SylWrap HD has been used at 250°C with steam at 20 bar for a two week temporary repair and at 200°C at 20 bar for more than six weeks) (Lab tests show thermal stability up to 300°C)
<b>Max pressure resistance</b> .....	30 bar / 435 psi using Superfast Epoxy Putty and SylWrap HD, depending on nature of leak. For live leak pressure resistance consult pressure tables
<b>Chemical resistance</b> .....	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).

## SylWrap Pipe Repair Contractor Case Sizes

Product Code:	Pipe Diameter Range:	No. of Repairs:	SylWrap Sizes:	Wrap & Seal Sizes:
SYL-PRO-206	15 - 25mm	Up to 6	6 x SYL206HD (50mm x 1.8m)	8 x Small (25mm x 2m)
SYL-PRO-15-50	15 - 50mm	Up to 6	3 x SYL206HD (50mm x 1.8m)	3 x Small (25mm x 2m)
			3 x SYL309HD (75mm x 2.7m)	3 x Large (50mm x 4m)
SYL-PRO-309	25 - 50mm	Up to 6	6 x SYL309HD (75mm x 2.7m)	8 x Small (25mm x 2m)
SYL-PRO-25-100	25 - 100mm	Up to 4	2 x SYL309HD (75mm x 2.7m)	8 x Small (25mm x 2m)
			2 x SYL412HD (100mm x 3.6m)	
SYL-PRO-412	50 - 100mm	Up to 4	4 x SYL412HD (100mm x 3.6m)	2 x Small (25mm x 2m)
				2 x Large (50mm x 4m)
SYL-PRO-15-150	15 - 150mm	Up to 4	1 x SYL206HD (50mm x 1.8m)	3 x Small (25mm x 4m)
			1 x SYL309HD (75mm x 2.7m)	3 x Large (50mm x 4m)
			1 x SYL412HD (100mm x 3.6m)	
			1 x SYL616HD (150mm x 5.0m)	
SYL-PRO-50-150	50 - 150mm	Up to 4	2 x SYL412HD (100mm x 3.6m)	2 x Small (25mm x 2m)
			2 x SYL616HD (150mm x 5.0m)	4 x Large (50mm x 4m)
SYL-PRO-616	100 - 150mm	Up to 4	4 x SYL616HD (150mm x 5.0m)	2 x Small (25mm x 2m)
				4 x Large (50mm x 4m)
SYL-PRO-15-300	15 - 300mm	Up to 5	1 x SYL206HD (50mm x 1.8m)	2 x Small (25mm x 2m)
			1 x SYL309HD (75mm x 2.7m)	4 x Large (50mm x 4m)
			1 x SYL412HD (100mm x 3.6m)	
			1 x SYL616HD (150mm x 5.0m)	
			1 x SYL633HD (150mm x 10.0m)	
SYL-PRO-100-300	100 - 300mm	Up to 4	2 x SYL616HD (150mm x 5.0m)	4 x Large (50mm x 4m)
			2 x SYL633HD (150mm x 10.0m)	
SYL-PRO-633	150 - 300mm	Up to 4	4 x SYL633HD (150mm x 10.0m)	4 x Large (50mm x 4m)
SYL-PRO-866	300 - 600mm	Up to 2	2 x SYL866HD (150mm x 10.0m)	4 x XL (50mm x 11m)

## Health & Safety Use

SylWrap HD contains a urethane pre-polymer. 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 exposure to the leaking material. For further health and safety information, please refer to the relevant Safety Data Sheet.

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