

SYLWRAP

Universal Pipe Repair Kit

Description

The SylWrap Universal Pipe Repair Kit will permanently fix a leaking pipe even when pressure **cannot** be turned off. Repairs can be made in under 30 minutes to steel, copper, malleable iron, GRP, ceramic, clay, most plastics, concrete, rubber and lead.

A number of different sized Kits are available, capable of repairing pipe diameters up to 600mm. Repairs can be built to have pressure resistance up to 30 bar, are temperature resistant to 120°C and are effective on pipes carrying hot and cold water and chemicals. The SylWrap Universal Pipe Repair Kit has WRAS approval, meaning it is safe to use on pipes and fittings carrying drinking water.



Kit Contents and Directions for Use

The SylWrap Universal Pipe Repair Kit contains **Superfast Epoxy Putty**, **Wrap & Seal Pipe Burst Tape** and a **SylWrap LH Pipe Repair Bandage**.

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 in the same way, capable of building pressure resistance up to 30 bar. Additional Tapes can be purchased separately if required.

Kits covering pipes over 150mm diameter include a **SylPad Pressure Resistance Multiplier**. SylPad is used with Wrap & Seal to better concentrate the pressure of the Tape directly over the leak on larger pipes.

If pressure can be turned off, Putty is used to seal the leak. It is kneaded by hand until turning a uniform colour and then pushed into holes and cracks. Within 5-10 minutes, the Putty will harden to fill the damage with a watertight material. Repairs made using Putty are resistant to 30 bar.

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

SylWrap LH contains below 0.1% free diisocyanate. This means it is not covered by the 2023 EU and UK REACH legislation governing the safe use of diisocyanates and requires no mandatory safety training before handling. At the same time, the low hazard formulation reduces risk to operators.



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

Applications

Water and wastewater:

Petrochemical plants:

Quarries:

Power stations:

Steel works:

Hospitality and leisure:

Marine:

Domestic:

Used by water companies to repair leaks on the supply network and at treatment plants

Repair gas, oil and water supply pipes without using tools

Leaks on wash plant pipework

Ash transfer systems, pulverised fuel tubes, cooling water lines

Steam and water pipes, sludge and slurry lines

Air conditioning system pipes, heating systems

Emergency repairs in dock or whilst at sea to fuel lines, water pipes and waste pipes

Leaks on domestic water pipes in homes and workplaces, rubber hose repairs

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

SylWrap Working time	2-5 minutes depending upon temperature
Cured material life	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
Functional cure	30-45 minutes
Full cure (maximum properties)	24 hours
Coefficient of thermal expansion	$7.1 \times 10^{-5} / ^\circ\text{C}$ (SylWrap composite wrap)
Service conditions	
Max service temperature	120°C / 250°F
Max pressure resistance	30 bar / 435 psi using Superfast Epoxy Putty and SylWrap LH, depending on nature of leak. For live leak pressure resistance using Wrap & Seal, see table below
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)

SylWrap Universal Pipe Repair Kit Sizes and Maximum Pressure Resistance

There are 10 different sizes of SylWrap Universal Pipe Repair Kits for application on different pipe diameters.

Pressure figures show the maximum resistance which can be obtained with a single Wrap & Seal wrapped directly over a pinhole leak. Pressure values serve as a guide to potential maximum pressure resistance only. Actual pressure resistance depends upon pipe material, condition, hole size, leak type and tension maintained during wrapping.

If you are unsure, more than one Wrap & Seal can be used to stop the leak. To determine the number of Wrap & Seal needed for a specific repair based on pipe diameter and hole size, use the repair calculator on Sylwrap.com/wrap-seal-burst-tape or contact Sylmasta. Additional Wrap & Seal can be purchased separately.

Universal Kits SYL-633-UP and SYL-866-UP include SylPad. When used in conjunction with Wrap & Seal, SylPad will multiply the pressure resistance of the Tape. For more information on SylPad, please contact Sylmasta.

Product Code:	SylWrap Size:	Wrap & Seal Size:	Pipe Diameter:	Max Live Leak Pressure Resistance Using 1 x Wrap & Seal against Outside Diameter:
SYL-106-UP	25mm x 1.8m	25mm x 2m	Up to 15mm	Up to 15mm: 30 bar
SYL-206-UP	50mm x 1.8m	25mm x 2m	15 - 25mm	15mm: 30 bar / 25mm: 25 bar
SYL-212-UP	50mm x 3.6m	25mm x 2m	25 - 50mm	25mm: 25 bar / 50mm: 12 bar
SYL-309-UP	75mm x 2.7m	25mm x 2m	25 - 50mm	25mm: 25 bar / 50mm: 12 bar
SYL-312-UP	75mm x 3.6m	25mm x 2m	50 - 75mm	50mm: 12 bar / 75mm: 8 bar
SYL-412-UP	100mm x 3.6m	25mm x 2m	50 - 100mm	50mm: 12 bar / 75mm: 8 bar / 100mm: 6 bar
SYL-416-UP	100mm x 5.0m	25mm x 2m	75 - 125mm	75mm: 8 bar / 100mm: 6 bar / 125mm: 5 bar
SYL-616-UP	150mm x 5.0m	25mm x 2m	100 - 150mm	100mm: 6 bar / 125mm: 5 bar / 150mm: 4 bar
SYL-633-UP	150mm x 10.0m	50mm x 4m	150 - 300mm	150mm: 8 bar / 225mm: 5 bar / 300mm: 4 bar
SYL-866-UP	200mm x 20.0m	50mm x 11m	300 - 600mm	300mm: 9 bar / 450mm: 6 bar / 600mm: 4 bar

Storage

SylWrap Universal Pipe Repair Kits should be stored in their packaging in cool, dry conditions. SylWrap LH should be kept unopened in its original foil pouch. Piercing or damaging the pouch will cause SylWrap LH to cure prematurely. Under such conditions, SylWrap Universal Pipe Repair Kit has a shelf life of at least 24 months from date of manufacture.

Health & Safety Use

Plastic gloves should be worn when handling Superfast Epoxy Putty and SylWrap LH. 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 Sheets for Superfast Epoxy Putty, Wrap & Seal, SylPad and SylWrap HD Bandage.

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