

SYLWRAP

NP Standard Pipe Repair Kit

Description

The **SylWrap Standard Pipe Repair Kit** will permanently fix a leaking pipe where pressure can be turned off in under 30 minutes. Repairs can be made to steel, stainless steel, copper, malleable iron, GRP, ceramic, clay, most plastics, concrete, and rubber.



A number of different sized Kits are available, capable of repairing pipe diameters up to 600mm. Repairs are pressure resistant to 30 bar, temperature resistant to 200°C and effective on pipes carrying hot and cold water and chemicals. The SylWrap Standard 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 Kit contains **Superfast Epoxy Putty** and a **SylWrap HD Pipe Repair Bandage**. The Putty 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 seal the leak.

The Putty is then reinforced with SylWrap HD. Wetting the bandage activates the resin within the wrap. SylWrap HD 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.



Advantages

- Permanent pipe repair in 30 minutes
- Repairs possible on pipes up to 600mm diameter
- Repairs elbows, tees and other complex shapes
- Pressure resistant to 30 bar. Temperature resistant to 200°C

Applications

Water and wastewater:	Used by water companies to repair leaks on the supply network and at treatment plants
Petrochemical plants:	Repair gas, oil and water supply pipes without using tools
Quarries:	Leaks on wash plant pipework
Power stations:	Ash transfer systems, pulverised fuel tubes, cooling water lines
Steel works:	Steam and water pipes, sludge and slurry lines
Hospitality and leisure:	Air conditioning system pipes, heating systems
Marine:	Emergency repairs in dock or whilst at sea to fuel lines, water pipes and waste pipes
Domestic:	Leaks on domestic water pipes in homes and workplaces, rubber hose repairs

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	200°C / 392°F using Superfast Epoxy Putty and SylWrap HD in conjunction
Max pressure resistance	30 bar / 435 psi using Superfast Epoxy Putty and SylWrap HD in conjunction, depending on nature of leak. (Tested on 50mm pipe with 10mm hole)
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)

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.

SylWrap Standard Pipe Repair Kit Sizes

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

Product Code	SylWrap Size	Pipe Diameter
SYL-106-NP	25mm x 1.8m	Up to 15mm
SYL-206-NP	50mm x 1.8m	15 - 25mm
SYL-212-NP	50mm x 3.6m	25 - 50mm
SYL-309-NP	75mm x 2.7m	25 - 50mm
SYL-312-NP	75mm x 3.6m	50 - 75mm
SYL-412-NP	100mm x 3.6m	50 - 100mm
SYL-416-NP	100mm x 5.0m	75 - 125mm
SYL-616-NP	150mm x 5.0m	100 - 150mm
SYL-633-NP	150mm x 10.0m	150 - 300mm
SYL-866-NP	200mm x 20.0m	300 - 600mm

Storage

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

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.

Case Studies



London Hotel Cracked Cast Iron Wastewater Pipe Elbow Repair

A large 50mm x 25mm hole in a cast iron wastewater pipe had forced a London hotel to close one of its most popular rooms. The leak was on an elbow bend in restricted space underneath floorboards, making access difficult. Superfast Epoxy Putty was formed into a disc large enough to cover the crack. The disc was placed over the crack and the edges pushed firmly down onto the pipe, forming a strong bond. SylWrap HD was wrapped over the repair, forcing the Putty into the crack and creating a watertight seal. Within an hour of the repair being completed, the room was reopened to the public.



Quarry Wash Plant Pierced 300mm Plastic Pipe Repair

During day-to-day operations at a quarry aggregate wash plant, a 300mm plastic pipe became pierced. This caused a highly pressurised jet of water to spray out at 6 bar. The plant wanted to repair the pipe to avoid the disruption which replacement would cause to operations. Pressure was turned off and a SYL-633-NP SylWrap Standard Pipe Repair Kit used to seal the line. Superfast Epoxy Putty plugged the pinhole leak and SylWrap HD reinforced the repair, helping better protect the plastic pipe from the abrasive environment of the quarry.



90-year-old Cracked Malleable Iron Water Supply Pipe Repair

Excavation of a 90-year-old malleable iron pipe supplying water to private property revealed a large hole. The age of the pipe meant replacement fittings were no longer manufactured. If the property owner could not find a repair solution, they would have to dig up and replace the entire line. Superfast Epoxy Putty was easily able to seal the hole. SylWrap HD was then wrapped across the leaking section, creating an impact resistant shell to protect the pipe before it was reburied.



Furniture Factory Sprinkler System Pinhole Leak Repair

The furniture factory were initially told by a maintenance company the only solution for a pinhole leak in their sprinkler system suspended from the ceiling was replacement of the impacted section. This was based on the belief only a pipe repair clamp could withstand the 8 bar pressure of the system, and no clamp could be fitted because of the leak location on a tee. Instead of undertaking the costly recommended replacement, the factory applied Superfast Epoxy Putty over the hole and wrapped around the tee with SylWrap HD for a permanent repair.

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