



# Pipe Repair & Refurbishment



15024  
ISO 9001: 2015

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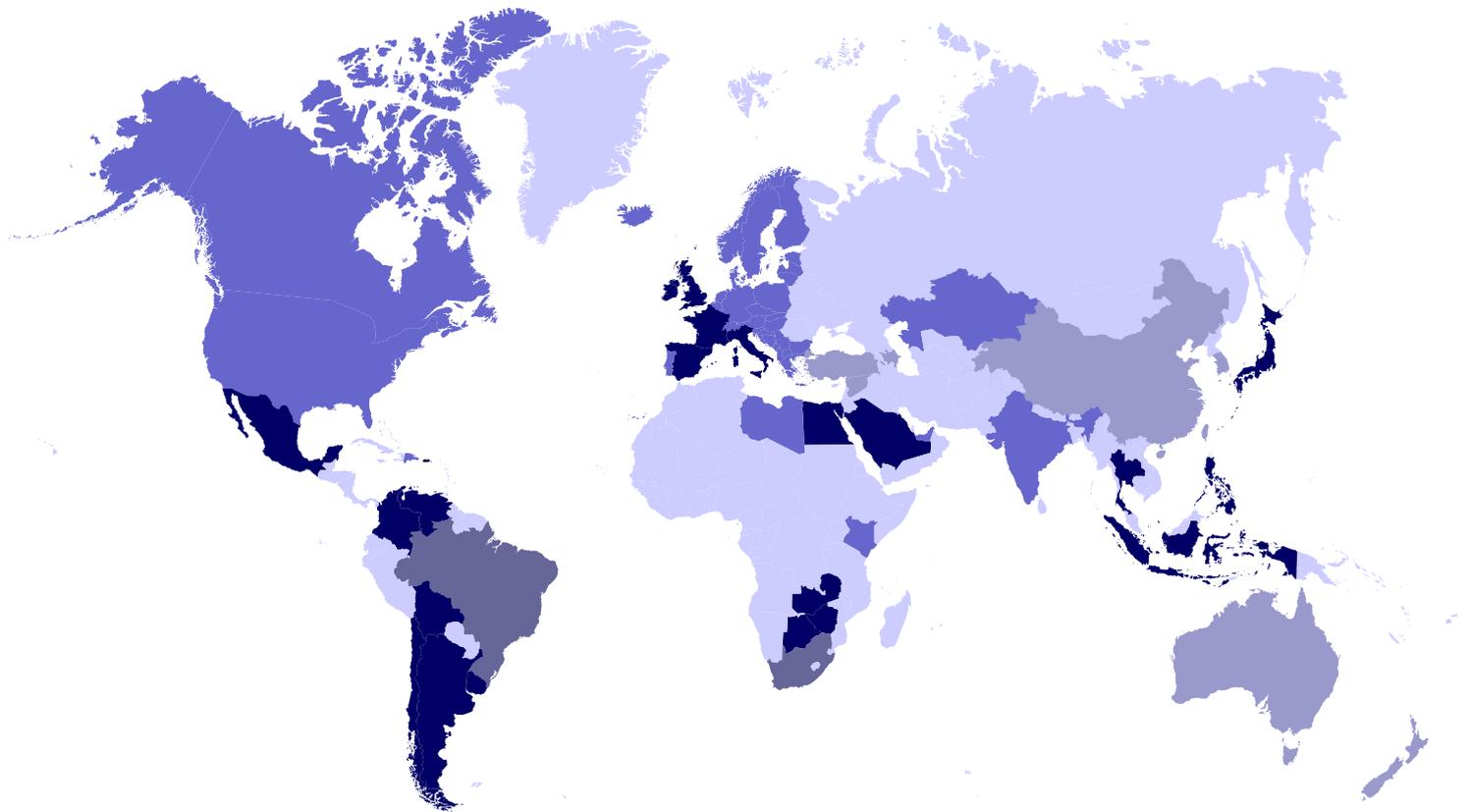
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**Global Provider of Pipe Repair & Maintenance Products**

Sylmasta pipe repair products are proven, cost-effective solutions for pipe and pipeline repairs worldwide. Continued product testing and the highest quality raw materials ensure we produce the best quality products.

Most products in the Sylmasta pipe repair range are WRAS Approved, meaning they have been independently tested as safe for use on drinking water and comply with the stringent requirements of BS 6920.

With the benefit of many years of application knowledge, Sylmasta products can be used to make repairs which meet the ASME standard PCC-2S-2015 - Repair of Pressure Equipment and Piping.

Sylmasta is also ISO 9001 accredited, demonstrating our dedication to high standards of consistency and quality. We are committed to continued, application-led product research and our laboratory can provide fast, customised solutions to meet specific user needs at short notice.

**Sylmasta are committed to:**

1. Providing innovative solutions which work
2. Minimising lead times
3. Providing strong technical support.

*David Bedding  
Managing Director*



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**Sylmasta Ltd (UK)**

Halland House  
Lewes Road, Scaynes Hill  
RH17 7PG, England

**Tel:** +44 (0) 1444 831459

**Email:** [sales@sylmasta.com](mailto:sales@sylmasta.com)

**Web:** [www.sylmasta.net](http://www.sylmasta.net)

# SylWrap Pipe Repair Bandages

For pipes from 15mm to 600mm and above

Repairs & Refurbishes Pipework

For Leaks, Corrosion & Damage

## For the fast repair of pipe leaks - just dip SylWrap into water and wrap

SylWrap is a fibreglass tape with a water-activated resin which sets rock hard in minutes for a high strength, permanent repair. It works on all sizes of pipe to seal leaks, and to strengthen and protect corroded pipes.

Leaks can be repaired using SylWrap alone or in combination with a Superfast Epoxy Stick or Industrial Metal for the highest pressure repairs.

SylWrap is used across industries to repair leaks and damage to pipe work made from materials such as GRP, steel, iron and copper. It is used by desalination plants, water companies, pumping stations and petrochemical plants around the world.

### Applications

- Repairing pipe leaks
- Increasing hoop strength
- Refurbishing old pipework
- Repairing damage to pipes

### Advantages

- Easy to use
- Can be applied underwater
- High strength
- High pressure resistance
- Impact resistant



Code	SylWrap Size	Pipe Diameter
SYL106HD	25mm x 1.8m	Up to 15mm
SYL206HD	50mm x 1.8m	15 - 25mm
SYL212HD	50mm x 3.6m	25 - 50mm
SYL309HD	75mm x 2.7m	25 - 50mm
SYL312HD	75mm x 3.6m	50 - 75mm
SYL412HD	100mm x 3.6m	50 - 100mm
SYL416HD	100mm x 5m	75 - 125mm
SYL616HD	150mm x 5m	100 - 150mm
SYL633HD	150mm x 10m	150 - 300mm
SYL866HD	200mm x 20m	300 - 600mm
SYL1266HD	300mm x 20m	Larger Pipes

Widest Range of Sizes up to 300mm x 20m

How to use SylWrap



SylWrap Width

25mm

300mm



Dip the SylWrap bandage in water to activate the resin.



Tightly wrap the SylWrap around the pipe.



Continue to smooth and tighten the SylWrap around the pipe until it has set hard.

**Repairs Using SylWrap**

**Fire Station Pump Room**  
*Saudi Arabia*



**Desalination Plant**  
*Marafiq, Saudi Arabia*



The 2" nozzle on the main cooling supply line had snapped off from the flange and was discharging sea water 5m vertically at a pressure of 3 bar.

A teflon plug was secured into the hole and then Sylmasta Superfast Aqua Stick was used to seal the leak, followed by 7 layers of SylWrap Pipe Repair Bandage.

**Water Supply Pipes**  
*Brega, Libya*



**Water Pump**  
*Power Authority, Puerto Rico*



The pipe carrying contaminated water to the treatment plant was cracked when it was struck by equipment being moved below.

Wrap & Seal was used to seal the live leak and then this was overwrapped with SylWrap for a fast, permanent repair.

# SylWrap No Pressure Pipe Repair Kit

## For when flow can be stopped

For Quick & Easy Pipe Repairs



### SylWrap 'No Pressure Kit' is designed for pipe repairs where flow **CAN BE** isolated

For applications on pipes made from steel, stainless steel, copper, malleable iron, GRP, ceramic, clay, concrete, rubber and most plastics.

#### Each kit contains:

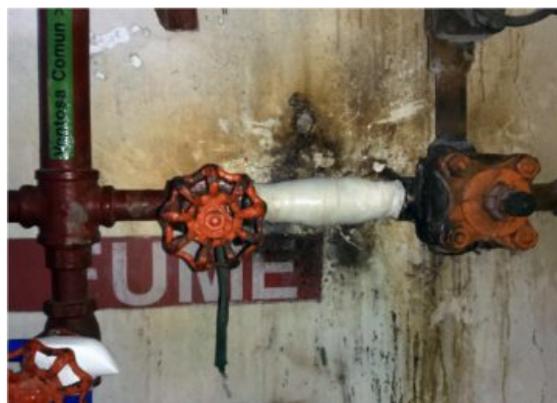
- Superfast Copper Epoxy - seals the leak, fills cracks, removes step from leaking joints, smooths off pitting etc.
- SylWrap - applied over the Superfast Copper for a long term, pressure-resistant repair
- Gloves

#### Applications

- Leaking joints
- Pin hole leaks
- Small cracks

#### Advantages

- Low cost alternative to replacement
- Leaks repaired in minutes
- Easy to use



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-412-NP	100mm x 3.6m	50 - 100mm
SYL-616-NP	150mm x 5.0m	100 - 150mm
SYL-633-NP	150mm x 10.0m	150 - 300mm

### How to Use SylWrap No Pressure Kit



1

Mix the Superfast Copper epoxy putty until it is a uniform colour.



3

Activate the SylWrap bandage in water and quickly wrap over the Superfast Copper.



2

Press the Superfast Copper into and around the leak.



4

Pull and smooth the SylWrap as it is applied until it sets hard.

# SylWrap Under Pressure Repair Kit

## For when flow cannot be stopped

For Live Leak Repairs

Contains Wrap & Seal to Stop Leak



### SylWrap 'Under Pressure Kit' is for pipe repairs where flow **CANNOT BE** isolated

For applications on pipes made from steel, stainless steel, copper, malleable iron, GRP, ceramic, clay, concrete, rubber and most plastics.

#### Each kit contains:

- Wrap & Seal - stops the pressurised leak
- Superfast Copper Epoxy - helps seal the leak on rough and pitted surfaces, removes step from leaking joints.
- SylWrap - applied over the Wrap & Seal for a long term, pressure-resistant repair
- Gloves

#### Applications

- Leaking joints
- Pin hole leaks
- Small cracks

#### Advantages

- Can repair live leaks
- No need to isolate flow
- Easy to use



Code	SylWrap Size	Pipe Diameter
SYL-106-UP	25mm x 1.8m	Up to 15mm
SYL-206-UP	50mm x 1.8m	15 - 25mm
SYL-212-UP	50mm x 3.6m	25 - 50mm
SYL-309-UP	75mm x 2.7m	25 - 50mm
SYL-412-UP	100mm x 3.6m	50 - 100mm
SYL-616-UP	150mm x 5.0m	100 - 150mm
SYL-633-UP	150mm x 10.0m	150 - 300mm

### How to Use SylWrap Under Pressure Kit



**1** Use Wrap & Seal tape to stop the leak.  
*If the pipe surface is rough and pitted then use Superfast Copper to plug the hole as you wrap.*



**3** Activate the SylWrap bandage in water and quickly apply over the Wrap & Seal tape.



**2** Continue applying Wrap & Seal, pulling tightly over the leak area until the leak stops.



**4** Pull and smooth the SylWrap as it is applied until it sets hard.

# Standard Epoxy 19000

**For making fibreglass wrap repairs**

**Multiple, Cost-Effective Repairs**

**Multi-Purpose Resin System**

## For versatile pipe repairs when used with Sylmasta Fibreglass Tape

A high-performance, brushable epoxy adhesive for on-site pipe repairs and bonding applications on substrates such as metal, GRP and other composites. Standard Epoxy 19000 is used to repair pipes of all sizes.

Making a repair using Standard Epoxy 19000 requires slightly more effort compared to SylWrap (Page 4) but works out more versatile, as multiple repairs of different sizes can be made using one kit and the working time is longer. This makes it ideal to have on standby.

Standard Epoxy 19000 is also ideal for patch-repairing tanks and other vessels. When used with Fibreglass Tape, it can repair straightforward holes and also leaking corners caused by corrosion or damage.

Standard Epoxy 19000 is also used as a lay-up resin for composite repairs.

### Other Applications

- Corrosion protection
- Pipe repair and reinforcement
- High strength bonding

### Advantages

- Excellent corrosion protection
- Good chemical resistance
- Excellent adhesion
- Temperature resistance in excess of 100°C dry heat



Code	Size
E19000/10x225g	10 x 225g kits
E19000/5kg	5kg

See opposite page for more information about Sylmasta Fibreglass Tape

## Making a Pipe Repair Using Standard Epoxy System



1

Gently abrade and clean the pipe and apply Standard Epoxy using a paintbrush.



3

Apply a new coat of Standard Epoxy over the Fibreglass Tape.



2

Overwrap the uncured Standard Epoxy with the Fibreglass Tape.



4

Continue until repair is complete and finish with a final coat of Standard Epoxy.

# Sylmasta Fibreglass Tape

For use with Standard Epoxy 19000

For Epoxy Pipe Repairs

## Fibreglass Tape for pipe and tank repairs

Sylmasta Fibreglass Tape is used with Standard Epoxy 19000 for versatile, effective repairs to pipework, tanks and other vessels. The open weave allows the tape to mould around complex shapes and for the epoxy resin to easily saturate the fabric.

Fibreglass Tape comes in widths from 50mm to 150mm and each roll is 50m long.

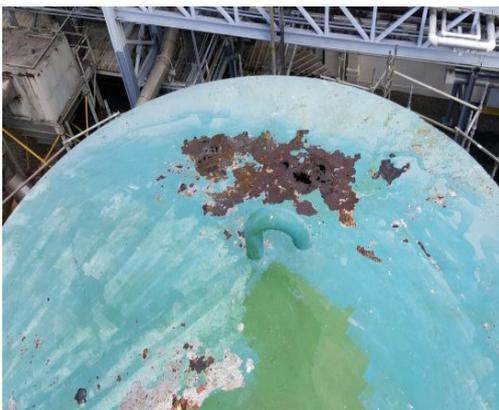
Sylmasta Fibreglass Tape is intended for use with Sylmasta Standard Epoxy 19000.

### Applications:

- Repair and maintenance of pipes and fittings
- Repair of leaking tanks and vessels
- Composite repairs



Code	Size
FGT/50x50	50mm x 50m Fibreglass Tape
FGT/100x50	100mm x 50m Fibreglass Tape
FGT/150x50	150mm x 50m Fibreglass Tape



# Wrap & Seal Pipe Burst Tape

**Stops Live Leaks**

**Self-Fusing Tape**



## Sylmasta Wrap & Seal will stop leaks even when pressure cannot be turned off

Simply stretch the tape tightly around the pipe, using the centre line as a guide, until the leaks stops. The tape will fuse into solid rubber band which maintains pressure over the leak. Wrap & Seal stretches by 300% to provide maximum pressure over the leak.

The repair can be reinforced by applying a SylWrap bandage over the Wrap & Seal to protect it and make a permanent repair.

### Other Applications

- Electrical Insulation
- Automotive
- Marine
- Tool Grips

### Advantages

- Seals live leaks
- No need to isolate flow
- Easy to use
- Easily removed

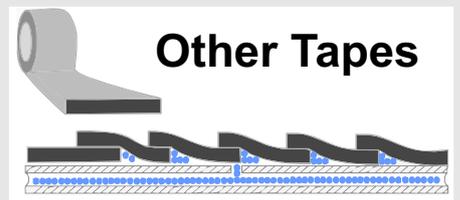


Code	Size
PB/25x2HD	25mm x 2m
PB/50x4HD	50mm x 4m
PB/50x11	50mm x 11m (no guideline)



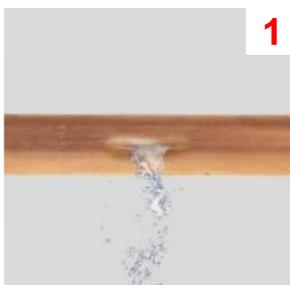
**Wrap & Seal**

**Unique tapered profile stops fluid from tracking under the tape**



**Other Tapes**

## How to Use Wrap & Seal



**1** Use Wrap & Seal to stop leaks which cannot be isolated.



**3** To remove, Wrap & Seal can be easily cut using a sharp blade.



**2** Tightly wrap around the pipe following the guideline, focusing pressure over the leak area.



**4** Wrap & Seal leaves no residue.

# Superfast Copper Stick



## For Copper & Domestic Pipes

### For the fast repair of damaged copper pipework

A copper-filled epoxy putty for permanent repairs to copper domestic pipework, such as waterpipes.

Copper Stick is suitable for all pipe work including fresh water pipes. Copper Stick is able to bond to damp or slow leaking surfaces and is easy to apply - simply tear, knead and apply to repair a damaged pipe in 5 minutes. Overwrap with SylWrap Bandage for a tough fast, long-lasting, high pressure repair.



Code	Size
SFCOP/114g	114g stick



# Superfast Steel Stick



## For Steel and Iron Pipes

### For the fast repair of steel, iron and industrial pipework

A steel filled epoxy putty used for permanent repairs to ferrous metals. Superfast Steel Stick is ideal for sealing cracks, holes and leaking joints in steel and iron pipes, and for repairing holes and filling damage caused by pitting and corrosion.

Use Superfast Steel to seal a leak on pipework before overwrapping with SylWrap bandage for a fast, long-lasting repair.

Superfast Steel Stick is also used to repair holes and damage in storage tanks and other metal repair applications.



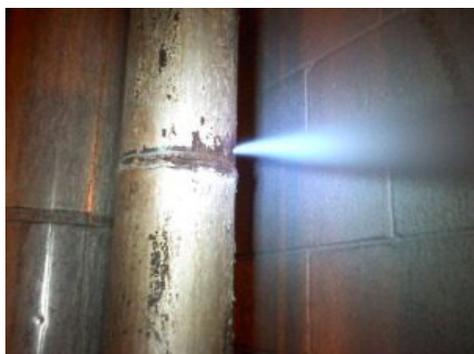
Code	Size
SFST/114g	114g stick



## Superfast Titanium Stick

### High Temperature

Repairs up to 280°C



**For repairs to pipework subject to high temperatures up to 280°C**

Superfast Titanium is used for permanent repairs in high temperature applications, such as steam pipes and other pipework in industry. Use Superfast Titanium to seal a leak on pipework before overwrapping with SylWrap Bandage for a fast, long-lasting repair.

Superfast Titanium High Temperature can be used continuously at 245°C or intermittently at 280°C and has high chemical resistance.



Code	Size
SFTI/114g	114g stick

## Superfast Aqua Stick

Bonds Underwater



**A fibreglass-reinforced epoxy putty for permanent repairs to wet surfaces, fibreglass and composites**

Superfast Aqua Stick is specially formulated to adhere to surfaces exposed to damp, wet or underwater (salt or fresh) conditions.

It is used to seal leaks in GRP pipework and can be overwrapped with SylWrap for a high-pressure repair. Superfast Aqua Stick sets to a white colour.



Code	Size
SFAQ/114g	114g stick

## Superfast Plastic Stick

For Plastic Waste Pipes



**A semi-flexible epoxy putty for permanent repairs to most major plastic types**

Superfast Plastic sets white and is used to make repairs to pipes made from ABS and PVC, such as sink and bath waste pipes and toilet soil pipes.



Code	Size
SFPL/114g	114g stick

# Industrial Metal Epoxy Repair Paste

**Independently tested to BS 6920 for use on Drinking Water**

## Repairing Extensive Damage

### A metal-filled epoxy paste for repairing damage and pitting on pipework

Industrial Metal is designed for maintenance and repair work to metal. It is used on larger pipework to repair holes, cracks and areas of pitting and damage before applying SylWrap Bandage to finish the repair.

Industrial Metal is also used for the maintenance and repair of pumps, valves, metal castings, automotive bodywork and tanks.

#### Applications:

- Used for the repair and maintenance of pipes, fittings and equipment
- Used to repair holes, cracks and pitting in pipes and tanks
- Used to reline worn areas in pumps, valves and associated equipment
- Industrial equipment repair, maintenance and construction
- Provides protection against corrosion & chemical attack



Code	Size
PST/500g	500g
PST/4x500g	4 x 500g
PST/5kg	5kg
PST/37.5kg	37.5kg

# Liquid Metal Protective Coating

## Corrosion Protection

### A metal-filled epoxy coating for protecting pipes and other metalwork from corrosion

When brush-applied, Liquid Metal sets to a smooth, metallic, hard-wearing protective coating for environmental and corrosion protection.

Liquid Metal can be used for general pipe protection or can be applied to corrosion-protect pipes before overwrapping with SylWrap when refurbishing and strengthening pipework.

#### Applications:

- Pumps, impellers, flange faces, water box ends, calves, metal castings, pipe elbows, tanks etc.
- Applications requiring protection against corrosion and chemical attack



Code	Size
PBS/500g	500g
PBS/4x500g	4 x 500g
PBS/5kg	5kg
PBS/30kg	30kg

# Other Sylmasta Products

## High quality maintenance products for industry

Specialising in the development and manufacture of high quality adhesives, sealants and lubricants, Sylmasta supplies products into the manufacturing and maintenance markets through a growing international distributor base.

For more information visit

[www.sylmasta.net](http://www.sylmasta.net)

## Maintenance & Repair

- Metal repair
- Epoxy putties
- Epoxy coatings
- Ceramic coatings
- Elastomeric coatings
- Underwater repairs
- Floor repair
- Roof repair
- Specialist aerosols
- Electrical sealing



## Adhesives & Sealants

- Epoxy adhesives
- Plastic bonding
- Superglues
- Threadlocks
- Retainers
- Flex sealants
- UV glass bonding
- Thread sealants
- Mitre bonding
- Fibre optic bonding



## Lubrication

- Copper antiseize
- Heavy duty grease
- Wet grease
- Penetrating spray
- High temperature
- Moisture repellent
- Silicone spray
- Spray lube



## Cleaning & Preparation

- Release agent
- Solvent cleaner
- Cleaner spray
- Isopropyl wipes
- Multipurpose wipes
- Heavy duty scrubs
- Dry wipes
- Protective gloves
- Silicone spray
- Tools and mixing cups



## Sylmasta Micro Abrasives

Range of micro abrasive sheets, files and pads for high quality, glossy finishes to metal and plastics. Widely used for removing haze from clear plastics and polishing journal bearings.



# Typical Sylmasta Repairs



**Shaft repair**



**Mixer refurbishment**



**Metal protection**



**High grip coating**



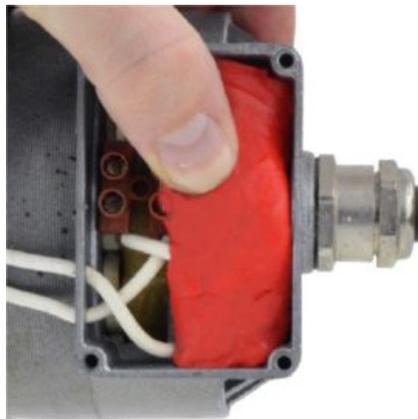
**Protective coating**



**Bronze repair**



**Underwater repair**



**Electrical sealing**



**Wood repair**



**Thread sealing & locking**



**Large gap filling**



**Casting repair**



**Sylmasta Ltd (UK)**  
Halland House  
Lewes Road, Scaynes Hill  
RH17 7PG, England

**Tel:** +44 (0) 1444 831459

**Email:** [sales@sylmasta.com](mailto:sales@sylmasta.com)

**Web:** [www.sylmasta.net](http://www.sylmasta.net)

