

Pipe Repair & Refurbishment



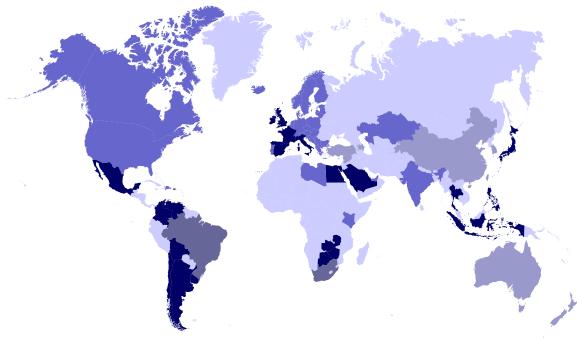








SylWrap Standard Pipe Repair Kit	5
SylWrap Universal Pipe Repair Kit	6
Sylwrap Pipe Wrap Contractor Case	7
Wrap & Seal - Pipe Burst Tape	8
PreSeal - Contour Tape	9
Superfast Copper Stick	10
Superfast Steel Stick	10
Superfast Titanium Stick	11
Superfast Aqua Stick	11
Superfast Plastic Stick	11
SylWrap Pipe Repair Bandages	12
Fibreglass Repair Kit	14
Standard Epoxy 19000	15
Sylmasta Fibreglass Tape	15
Industrial Metal Epoxy Repair Paste	16
Liquid Metal Protective Coating	16



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.

Our pipe and leak repair systems have been independently tested to the requirements laid down by BS 6920 and have achieved WRAS approval, meaning that they conform to Regulation 31 of The Water Supply (Water Quality) Regulations, Small Surface Area Contact Ratio Product Types - Section 4(b).

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.

Simon Bedding Managing Director









15024 ISO 9001: 201

Sylmasta Ltd (UK)
Halland House
ewes Road Scaynes H

Lewes Road, Scaynes Hill RH17 7PG, England

Tel: +44 (0) 1444 831459

Email: sales@sylmasta.com

Web: www.sylmasta.net



SYLWRAP



Pipe Repair Kits for Every Emergency

SylWrap Pipe Repair kits provide all the equipment needed to quickly and permanently repair leaks

SylWrap products are used by well-known companies around the world for repairs to desalination plants, pipelines carrying water, waste water treatment works, nuclear power stations, pumping stations, petrochemical plants, quarry wash plants, freight ships, dry risers and domestic plumbing.

SylWrap Pipe Repair Kits come in three different formats. The Standard Kit is for repairs where flow can be isolated. The Universal Kit is for live leaks where pressure cannot be isolated and the Contractor Case contains equipment to fix multiple live leaks.





SylWrap Pipe Repair Kits contain the following:

Wrap & Seal Pipe Burst Tape

Wrap & Seal Pipe Burst Tape will stop leaks even when pressure cannot be turned off. The tape stretches by 300% to provide maximum pressure over the leak, fusing into a solid rubber band.



Superfast Copper Epoxy Putty is a hand-kneadable, fastsetting, industrial-strength epoxy putty. It seals leaks, fills cracks, removes step from leaking joints and smooths off pitting.



SylWrap Bandage is a fibreglass tape with a water-activated resin which sets rock hard in minutes. It is used to wrap over the top of a repair made with Wrap & Seal or Superfast Epoxy Putty to provide a longer-lasting repair. It can also be used to refurbish pipes in poor condition to restore them to their original strength.







Wrap & Seal, Superfast Epoxy Putty and SylWrap Bandages can also be purchased separately

SylWrap Standard Pipe Repair Kit

For when flow can be stopped

For Quick & Easy Pipe Repairs





SylWrap Standard Pipe Repair 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 Epoxy Putty seals the leak, fills cracks, removes step from leaking joints, smooths off pitting etc
- SylWrap applied over the Superfast Epoxy 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
SYL-866-NP	200mm x 20.0m	300 - 450mm
SYL-309-NP SYL-412-NP SYL-616-NP SYL-633-NP	75mm x 2.7m 100mm x 3.6m 150mm x 5.0m 150mm x 10.0m	25 - 50mm 50 - 100mm 100 - 150mm 150 - 300mm

For Wrap & Seal Requirement Tables, please see page 19

How to Use SylWrap No Pressure Kit



Mix the Superfast Epoxy Putty until it is a uniform colour.



Activate the SylWrap bandage in water and quickly wrap over the Superfast Epoxy Putty



Press the Superfast Epoxy Putty into and around the leak.



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



SylWrap Universal Pipe Repair Kit

For when flow cannot be stopped

For Live Leak Repairs

Contains Wrap & Seal to Stop Leak





SylWrap Universal Repair 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 Epoxy Putty seals the leak on pipes where pressure can be isolated, removes step from joints to facilitate application of Wrap & Seal
- SylWrap Bandage 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
SYL-866-UP	200mm x 20.0m	300 - 450mm

How to Use SylWrap Universal Pipe Repair Kit - Live Leak



Use Wrap & Seal tape to stop the leak.

If the pipe surface is rough and pitted then use SylWrap PreSeal to cover the damaged area



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



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



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

SylWrap Pipe Repair Contractor Case

For carrying out several repairs

Perfect for Keeping on the Van

Seals Leaks on All Pipe Types

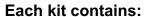




An easy-to-store case containing enough equipment to fix multiple live leaks

The Pipe Repair Contractor Case can be used to make multiple repairs on pipes of various diameters in a matter of minutes. It is suitable for carrying out repairs on all pipe types, even when pressure cannot be turned off and works inside of 30 minutes.

The case is designed to fit under the seat of most vans and is easy to carry, making it ideal to have to hand should the need to carry out an unexpected repair arise.



- Wrap & Seal Pipe Burst Tape to seal live leaks
- Superfast Epoxy Putty helps repair damage, seal leaks, plug holes and remove steps from leaking joints
- SylWrap reinforces and finishes the repair
- Gloves

Applications

- Leaking joints
- Pin hole leaks
- Small cracks

Advantages

- Contains enough equipment to make multiple repairs
- High strength repairs in 30 minutes
- Red case fits under the seats of most vans
- Seals all pipe types and materials









Code	Kit Contains	No. of Repairs	Pipe Diameter
SYL-PRO-206	6 x SYL206HD; 8 x Small Wrap & Seal	Up to 6	15 - 25mm
SYL-PRO-15-50	3 x SYL206HD, 3 x SYL309HD, 8 x Small W&S	Up to 6	15 - 50mm
SYL-PRO-15-150	SYL206HD, SYL309HD, SYL412HD, SY616HD, 8 x Small W&S	Up to 4	15 -150mm
SYL-PRO-309	6 x SYL309HD, 8 x Small W&S	Up to 6	25 - 50mm
SYL-PRO-412	4 x SYL412 HD, 2 x Small W&S, 4 x Large W&S	Up to 4	50 - 100mm
SYL-PRO-50-150	2 x SYL412HD, 2 x SYL616HD, 2 x Small W&S, 4 x Large W&S	Up to 4	50 - 150mm
SYL-PRO-616	4 x SYL616HD, 2 x Small W&S, 4 x Large W&S	Up to 4	100 - 150mm
SYL-PRO-100-300	2 x SYL616HD, 2 x SYL633HD, 4 x Large W&S	Up to 4	100 - 300mm
SYL-PRO-633	4 x SYL633HD, 4 x Large W&S	Up to 4	150 - 300mm



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

Applications

- Leaking pipes
- Automotive
- Electrical insulation
- Tool Grips

Advantages

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

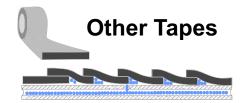


Code	Size
PB/25x2HD	25mm x 2m
PB/50x4HD	50mm x 4m
PB/50x11	50mm x 11m (no guideline)

For Wrap & Seal Requirement Tables, please see page 19



Unique tapered profile stops fluid from tracking under the tape



How to Use Wrap & Seal



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



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



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



Wrap & Seal leaves no residue.

PreSeal

Contour Tape

Seals Pipes With Rough Surfaces

Enhances Wrap & Seal





Sylmasta PreSeal can be used to enhance the power of Wrap & Seal when repairing pipes with damaged surfaces

PreSeal is a malleable butyl strip that can be applied directly to pipes which are uneven due to corrosion or have deep scratches after abrasion or filling.

The PreSeal strip can be placed directly over the area requiring repair. It will bed in and fill any imperfections on the surface of the pipe work, ensuring a complete seal when it is then over-wrapped with Wrap & Seal Pipe Burst Tape.

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

Applications

- Industrial pipework
- Marine

Advantages

- Seals on even the roughest of surfaces
- Can be used on live leaks





Code	Size
PBP/50x100	50mm x 100mm
PB/50x4HD	50mm x 1.5m
PB/50x11	50mm x 15m

How to Use PreSeal



Use PreSeal to seal leaks on pipework which is uneven, scratched or badly damaged.



Apply Wrap & Seal Pipe Burst Tape straight over the PreSeal strip.



Cut off a strip of PreSeal long enough to cover the area of the leak, affixing one edge behind the leak.



Press the Wrap & Seal tightly to seal the leak.



Superfast Copper Stick



For Copper & Domestic Pipes

For the fast repair of damaged copper pipework

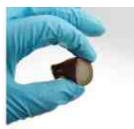
A copper-filled epoxy putty for permanent repairs to copper domestic pipework, such as waterpipes.

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.















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 in 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/114a	114a 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



SylWrap Pipe Repair Bandages

For pipes from 15mm to 600mm and above

Repairs & Refurbishes Pipework

For Leaks, Corrosion & Damage

For reinforcing repairs and refurbishing older pipes - 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 repair. It works on all sizes of pipe to reinforce repairs made with Wrap & Seal and Superfast Epoxy Sticks.

SylWrap may be used by itself to refurbish and strengthen older pipes. Applying a SylWrap bandage to a pipe that is damaged or worn will provide the pipe with added protection, increase its lifespan and help to prevent any future leaks from occurring.

Applications

- Reinforcing repairs to 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





SylWrap Variations

SylWrap HD

Standard SylWrap used to permanently repair leaks and damage to pipe work. Use product suffix HD

SylWrap FR

A fire retardant version of SylWrap to fix pipework subjected to extreme temperatures.

Use product suffix FR

SylWrap CR

A version of SylWrap featuring corrosion inhibitors for repairs in a marine environment.

Use product suffix CR

How to use SylWrap



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.



Code	Suffix	SylWrap Size	Pipe Diameter
SYL106	HD	25mm x 1.8m	Up to 15mm
SYL206	HD	50mm x 1.8m	15 - 25mm
SYL212	HD, CR, FR	50mm x 3.6m	25 - 50mm
SYL309	HD, CR, FR	75mm x 2.7m	25 - 50mm
SYL312	HD	75mm x 3.6m	50 - 75mm
SYL412	HD, CR, FR	100mm x 3.6m	50 - 100mm
SYL416	HD, CR, FR	100mm x 5m	75 - 125mm
SYL616	HD, CR, FR	150mm x 5m	100 - 150mm
SYL433	CR, FR	100mm x 10m	100 - 200mm
SYL633	HD, CR, FR	150mm x 10m	150 - 300mm
SYL866	HD, CR, FR	200mm x 20m	300 - 600mm
SYL1266	HD, CR, FR	300mm x 20m	Larger Pipes





Repairs Using SylWrap

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.



Fibreglass Repair Kit

For patch repairs on most surfaces

For Multiple Patch Repairs

Repairs and Strengthens Tanks

All the equipment needed to fix damaged areas in one easy-to-use kit

The Fibreglass Repair Kit contains all the equipment needed to make patch repairs to damaged and leaking tanks, vessels, pipes which are inaccessible and leaking corners caused by corrosion or damage.

Each kit contains:

- Epoxy 19000 brushable epoxy adhesive which is applied over the leak or hole
- Sylmasta Fibreglass Tape moulds to the area being repaired for versatile, effective repairs
- 3 x Mixing cups allowing the kit to be used for one big repair or multiple fixes
- 3 x 2" brushes
- 3 x stirrers and 3 x pairs of gloves

Applications

- Damaged tanks
- Vessels
- Pipes which are inaccessible

Advantages

- Moulds around complex shapes
- Temperature resistance in excess of 100°C drv heat
- Offers multiple patch repairs





Code	Size
E190/3x225gKIT	10 x 225g kits
E190/5kg	5kg

Making a Tank Repair Using the Fibreglass Repair Kit



Gently abrade and clean the area to be repaired before mixing Standard Epoxy 19000 in preparation for application



Overwrap the uncured Standard Epoxy 19000 with the Fibreglass Tape.



Apply Standard Epoxy 19000 using a brush to the damaged area



Continue applying Standard Epoxy 19000 followed by Fibreglass Tape until the repair is complete, finishing with a final coat of Standard Epoxy.

Epoxy 19000 and Sylmasta Fibreglass Tape can be purchased separately

Standard Epoxy 19000

For making fibreglass wrap repairs

Epoxy Adhesive for Repairs and Bonding



A high-performance, brushable epoxy adhesive for on-site repairs and bonding applications on substrates such as metal, GRP and other composites.

Standard Epoxy 19000 is ideal for patch-repairing tanks and vessels when used in conjunction with Fibreglass Tape.

It can also be used to repair pipes of all sizes, straightforward holes and leaking corners caused by corrosion or damage.

Other Applications

- Corrosion protection
- High strength bonding

Advantages

- Good chemical resistance
- Excellent adhesion





Code	Size
E190/10x225g	10 x 225g kits
E190/5kg	5kg

Sylmasta Fibreglass Tape

For use with Standard Epoxy 19000

Fibreglass Tape for Pipe and Tank 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 x50m Fibreglass Tape
FGT/150x50	150mm x50m Fibreglass Tape



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

Maintenance & Repair

Adhesives & Sealants

- Metal repair
- Epoxy putties
- Epoxy coatings
- Ceramic coatings

Epoxy adhesives

Plastic bonding

Superglues

Threadlocks

Retainers

- Elastomeric coatings
- Underwater repairs
- Floor repair
- Roof repair
- Specialist aerosols
- Electrical sealing

Flex sealants

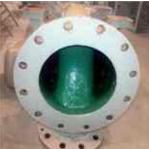
Mitre bonding

UV glass bonding

Fibre optic bonding

Thread sealants











Lubrication

- Copper antiseize
- Heavy duty grease
- Wet grease
- Penetratring 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





Metal protection



High grip coating



Protective coating



Bronze repair



Underwater repair





Wood repair



Thread sealing & locking



Large gap filling



Casting repair

Wrap & Seal Requirement Tables

The tables below can be used to estimate the number of Wrap & Seal Pipe Burst tapes required in order to seal a live leak for a given pipe diameter and pressure.

These tables are based upon Wrap & Seal being stretched to 300% of its original length and the tape being wrapped in a single tight band.

Please note that these values are only indicative and that the actual number of tapes required may vary according to pipe condition and leak type. Pipes with poor surface conditions may benefit from using Wrap & Seal PreSeal Tape to improve the initial seal.

