MW POLYMERS

Market Leader in Industrial Sealants, Coatings & Adhesives for over 40 years

SUPPORTING THE FUTURE OF BRITISH MANUFACTURING

Innovations | Specifications | Accolades

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About us.

Established in 1977 by Chartered Engineer Mike Wild, MW Polymers has since gained a reputation for being one of the most innovative, experienced, and forward-thinking companies within its sector.

All our products are manufacturing from our purpose built 13,000 sq. ft manufacturing facility based in Derbyshire, UK. Producing a wide range of industrial coatings, sealants, and adhesives for distribution gas, process industry and water pipe systems.

MW Polymers over the years have established their own onsite planetary, removing the requirement for outsourcing, investing in local skills, and reducing our carbon footprint.

As a family run business, with an excellent, dedicated, and experienced team, we are committed to providing the highest quality products, service, and support for our clients, going above and beyond to provide solutions to your pipeline repairs.

Achieving complete customer satisfaction is central to our business philosophy and this is reflected through our actions, relationships, processes, and operations.

This approach is represented and underpinned by MW Polymers core principles of creating significant value for our customers and society at large.

Protecting The Future, Together

Committed to providing sustainable future proof and cost effective products for the repair and remediation of pipe networks and services to the utility sector

- We Follow Practices That Protect Our Planet
- We Are Efficient & Innovative
- We Create Significant Value For Our Customers & Society At Large

Table of Contents

We offer a range of durable, safe, and reliable sector-specific products, including coatings, adhesives, and sealants. Recognising that one-size-fits-all doesn't suit every need, we also provide fast, bespoke solutions using cutting-edge technology. Our 3D printing, CNC routing, and CAD services bring unique ideas to life, allowing us to test prototypes before large-scale production.

Our innovative solutions have set new quality and safety standards in the polymer industry, driving significant cost savings for our clients through our commitment to research and development.

Table of Contents

Sectors

Innovative and Safe Solutions for Every Industry, Every Time

We have gained a reputation for innovative and forward-thinking solutions that are ideally suited for use in all industries for both above and beneath ground repairs.

GAS

We have a range of gas industry approved (GIS) gas pipe sealants and adhesives that meet industry standards and regulatory requirements. Many of these products are suitable for a broad range of applications but if you need a solution designed specifically for your unique issue, we can offer bespoke gas pipe repair solutions that all of your needs.

WATER

We provide the convenience of an immediate solution with the cost-effectiveness lasting and permanent repair solution. With our water pipe repair solutions, you can immediately fix leaks and ensure that pipelines are properly maintained, preventing future leakage and further damage. All of our products can be easily applied without delay, and once cured, they last for up to 50 years, strengthening pipes and increasing their lifetime.

ELECTRICITY

As specialists in sealants and adhesives, we've been able to develop and manufacture products with the power to protect electrical circuits from moisture, dust, contaminants, vibrations, and impact damage.

OIL

As a high-risk industry with strict regulations and industry standards, the oil sector requires fast, effective, and approved solutions for oil pipe repairs and maintenance. MW Polymers is committed to providing the effective solutions you need while exceeding industry requirements regarding health, safety, quality, and environmental protection.

HYDROGEN

We offer a selection of pre-designed gas pipe sealants and adhesives that comply with industry standards and regulatory requirements. While many of these products are versatile and suitable for a wide range of applications, we can also provide custom gas pipe repair solutions tailored to your specific needs.

Why Choose Us?

Dependable
Trusted and Steadfast Solutions For Over 40 Years

Innovative
Committed To Follow Practices That Are Efficient & Innovative

Outstanding Quality
Engineering Excellence Through Knowledge & Expertise

Training Facilities

With Decades of Experience

Expert Guidance on the Application of Our Products

We offer complimentary support and training for all the products in our range. We provide we deliver decade of experience , supporting our users to make informed, cost-effective product selection choices and achieving maximised performance from the product.

Whether it's refresher course or full introductory training, we are happy to cater to support your requirements. We can hold our sessions in-house, online or at your business premises – wherever is most convenient for your team. But wherever the training takes place, we guarantee value-packed sessions that will leave you and your team members feeling more confident, knowledgeable, and experienced.

We also work with authorised training providers such as Develop Training, who include our product training as part of their wider City & Guilds induction training which they deliver via their training centres to the utilities network.

Get in touch with our team today to organise your session according to previous training

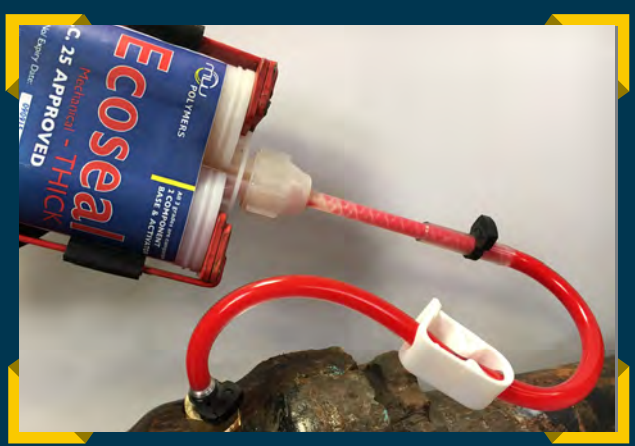
Our dedicated team are committed to providing a prompt response to your request within 48 hours

WWW.MWPOLYMERS.CO.UK/TRAINING-FACILITIES

Product Overview

Polyform™

Polyform™ and Medium Pressure Repair systems offer a flexible external repair system to help with leaking and damaged pipelines. The flexibility of these solutions makes them suitable for a wide range of issues, no matter how small, large or complex.



Ecoseal

Ecoseal® is an injectable product that has been designed to permanently fix leaking joints. This is a very versatile product that's flexible in its material to help repair even the most frustrating leaks. Ecoseal® is a must-have polymer product for any pipework joints that you find to be leaking

Green Ultra-Thin

Yellow Thin

Red Thick (Mechanical)

PE Repair Kit

A P.E. Repair Kit is essential for helping to fix damaged holes in pipelines whilst under live conditions. Our P.E. repair kits are suitable for both gas and water pipes, and a variety of pipe materials

MOBS

MW Polymers have designed an Anti-Corrosion sleeve repair kit that covers typical corrosion found on metal pipework on mid and high-rise building

FPS-30

MW Polymers have designed an repair sleeve repair kit for use over a shrink sleeve or as a first response to leak repair or corrosion prevention found on metal pipework on mid and high-rise buildings.

Barhole

Our permanent and reusable bar hole plugs are designed to fill bar holes and prevent them from turning into potholes if left untreated. These products are of the highest quality

Black

Clear

F201HV ®

Permabond's F201HV is a hydrogen ready sealant approved by KIWA for Permanent Repairs

A131 ®

Permabond's A131 is a hydrogen ready sealant approved by KIWA for Permanent and Non Permanent Repairs

Polyform™ Repair System

FLEXIBLE EXTERNAL REPAIR SYSTEM FOR LEAKING AND DAMAGED PIPELINES
POLYFORM has a 50 YEAR LIFE STANDARD APPROVED TO GIS LC8 & DIN 30658

NO GRIT BLASTING REQUIRED*

The Polyform System is a two-part sealant that once mixed together will form a non-slumping, robust consistency that can be applied to repair any shape and size main or fitting

Polyform is approved to
Gas Industry Standard (GIS) LC8 & DVGW DIN 30658

Polyform is approved for use on low pressure and with the addition of a venting kit medium pressure applications**

Independent studies show that Polyform delivers labour savings as a result of the universal fitting; ease of application and less time required on site

Ideal for situations where the pressure cannot be reduced, or the pipe flow cannot be stopped

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FEATURES	APPLICATIONS	PIPE MATERIALS	ADDITIONAL EQUIPMENT
No Grit Blasting*	Gas	Steel	Precoat Kit
50 Year Life Standard	Waste Water	Copper	Low Pressure Kit*
Labour Reduction	Oil	Cast Iron	Vent Kit**
Permits Pipe Movement	Chemical	Ductile Iron	
Excellent Flexibility	Low Pressure 75mbar*	Plastic	
Waterproof Once Cured	Medium Pressure 2 Bar**	P.E (Polyethylene)	

You can receive complimentary product training
please get in touch via phone or email for additional details.

Polyform™ Repair System

USER GUIDE

Step 1 : PPE

Please ensure you follow your companies PPE and COSHH guidance

Put on the gloves provided in the Low pressure wrapping kit (LP), then layer over the top with the lighter gloves provided the gloves provided in the Precoat kit. Layering the gloves allows you to perform the repair without needing to switch gloves.

Tip; It's advisable to secure the glove cuffs to your protective overall sleeves with tape to prevent them from sliding down.

Step 2: Preparation

As with most adhesives, it's crucial to ensure that the surfaces you bond to are clean and completely dry before application. In the gas

industry, Polyform is approved for use without the need for grit blasting, for low-pressures. Clean the metal with manual tools such as a cleaning belt and wire brush to sound clean metal.

For medium pressure, shot blasting is required. Once the surface is cleaned back to sound metal, the vent kit can be applied around the face of the joint before Polyform is then applied.

Additionally, the kit includes a one-meter strip of abrasive tape

Step 3: Applying the Precoat

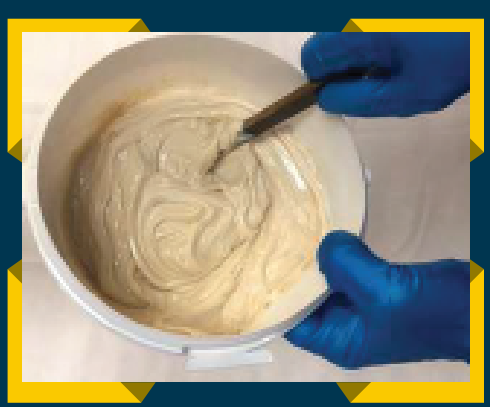
Once you have adequately cleaned a sufficiently large area for the application and that the pipe's surface is clean and dry, you can apply the solution provided in the precoat kit.

Using the sponge applicator provided the the Precoat solution should be applied sparingly. Once applied to the area wait until the solution is tacky, this is typically two minutes.

Step 4: Mixing Polyform

Begin by stirring the base in the bucket to agitate the ingredients as they may have settled in storage.

Pour in the activator and vigorously mix for 30-45 seconds, ensuring you thoroughly mix the sides and bottom as well.



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Polyform™ Repair System

Application Guide

Step 5: Applying Polyform

Using the spatula provided in the kit, apply the Polyform around the pipe joint ensuring adequate coverage of the underside.

Do not to layer the product, apply in on step, focusing the resin on the face side of the joint.

Apply Polyform in multiples as per quantity guide (see page 10)

Step 6: Wrapping the Polyform

Once the required Polyform has been applied, immediately wrap with the film supplied in the low pressure wrapping kit.

Begin by loosely wrapping the film around the joint, then increase tension on the film until it turns white, this indicates the correct tension is applied.

Wrap the film in a figure of eight to pull the Polyform into the face of the joint.

Tip; 'Stringing' film on the ends of the repair prevents the resin from being squeezed out of the middle

Step 7: Complete The Repair

Secure the end of the film with adhesive tape to complete the repair.

Do not allow water to enter the excavation for 2 hours after completion, after this time the repair will have cured sufficiently to be backfilled using sharp sand before hardcore.

You can receive complimentary product training please get in touch via phone or email for additional details.

Polyform™ Repair System

Quantity Guide

Polyform™ *Low Pressure*

		Litre of Polyform™		
Size of Main	Precoat	Lead Yarn	Mechanical	Low Pressure Kits
4"	1	1	3	1
6"	1	2	6	1
8"	1	3	7	1
10"	1	5	11	2
12"	2	6	15	2
14"	2	8	17	3
16"	3	9	19	4
18"	3	11	21	5

Tables are for guidance only

Polyform™ *Medium Pressure*

		Litre of Polyform™			
Size of Main	Precoat	Lead Yarn	Mechanical	Low Pressure Kits	Vent Kits
4"	1	4	6	1	1
6"	1	5	7	1	1
8"	1	7	10	1	1
10"	2	9	19	1	1
12"	3	11	23	2	2
14"	4	15	31	2	2
16"	5	17	35	2	2
18"	7	19	37	3	3

Tables are for guidance only

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Polyform™ Repair System

Case Study

MW Polymers works with PolyformTM on a 4" high pressure clamp for a gas utility company in the United States of America saving over with a cost saving of over 50%

Project Overview

The USA Uitility company was struggling with a significant challenge related to a 4" High Pressure Clamp. This issue has arisen due to the deterioration and corrosion of the gasket, a vital component within the clamp system. The consequence of this gasket corrosion is the occurrence of unwanted and
troublesome leaks along the flange of the coupling. These leaks pose a threat not only to the overall functionality of the coupling but also potentially to the safety and efficiency of the entire system it is a part of.

The presence of these leaks has necessitated immediate attention and a well-thought-out solution. The USA Uitility companynow finds itself in a position where addressing this problem effectively is of utmost importance to maintain the operational integrity of their equipment and prevent any potential
disruptions or hazards

MW Polymers Solution

The clamp underwent a series of restoration and treatment processes to ensure its durability and effectiveness. Initially, the clamp was grit blasted to remove any rust, corrosion, or old coatings, thereby exposing the sound metal underneath. This step is crucial as it provides a clean and stable surface for subsequent treatments.

Once the clamp's surface was adequately prepared, a primer was applied. Priming serves to enhance the adhesion of the final coating, offers an additional layer of protection against corrosion, and ensures a smooth and even finish.

After priming, the clamp was vented to allow for the release of any trapped air or moisture, preventing potential issues that could compromise the integrity of the coating.

Finally, a Polyform coating was applied. Polyform is known for its high-performance properties,
including resistance to wear, impact, and various environmental factors. This final layer not only protects the clamp from future damage but also extends its service life and reliability in demanding conditions.

Result

The result of the restoration process described would be a thoroughly refurbished and protected clamp that is ready for use in its intended application. Here are the key outcomes:

- Clean and Sound Surface: The clamp's surface has been cleaned of rust, corrosion, and old coatings through grit blasting, revealing sound metal underneath.
- Enhanced Durability: The application of primer enhances the durability of the clamp by providing a strong base for the final coating. It improves adhesion and protects against corrosion.
- Moisture Management: Venting after priming ensures that any trapped air or moisture is released. This prevents potential issues such as bubbling or poor adhesion of coatings.
- High-Performance Coating: The Polyform coating provides superior protection against wear, impacts, and environmental factors. It extends the clamp's service life and ensures reliable performance in challenging conditions.
- Ready for Use: Overall, the clamp is now restored to a like-new condition with improved durability and performance characteristics. It is ready to be installed and used effectively in its intended application, offering reliable functionality and longevity.

Ecoseal Repair System

External injection system for the repair of leaking mechanical and lead yarn pipe joints

APPROVED TO GIS LC25 - Providing a 50 Year Life Seal

GAS | ELECTRIC | WATER | OIL | HYDROGEN

Injection sealant, for the external repiar of cast iron and metallic distribution pipes, operating at pressures of 2 bar or less

The two part polyurethane sealant is available in three viscoties Red (Thick) for mechanical joints or where the yarn has totally decayed, Yellow (Thin) for leead yarn joints or Green (Ulta-Thin) for tightly packed joints.

Extremely flexible, ideal for use where there is excessive ground movement, including areas with levels of high traffic and ground vibration

- Single person application
- Can be applied directly through the joint/face or body
- Suitable for keyhole applications
- No other products available on the market, with the same material properties and durability
- Cost effective alternative to encapsulation & clamps
- Requires only basic tooling, no heavy machinery or equipment

Approved to Gas Industry Standard (GIS) LC25, which has a 50 year life seal

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Click For More Information

FEATURES

- Single Person Application
- 50 Year Life Standard
- Keyhole Application
- Excellent Flexibility
- Bonds to Cast Iron & Steel

APPLICATIONS

- Up To & Including 2 Bar
- Lead Yarn Directly Through the face
- Mechnical Joints
- Socket Joints
- Screwed Fittings
- Valves

PIPE MATERIALS

- Steel
- Cast Iron
- Ductile Iron

ADDITIONAL EQUIPMENT

- Injection Line & Dispenser Required for Application

You can receive complimentary product training please get in touch via phone or email for additional details.

Ecoseal Repair System

Application Guide

Step 1 : PPE

Please ensure you follow your companies PPE and COSHH guidance

Put on the gloves provided in the Ecoseal Repair kit

Tip; It's advisable to secure the glove cuffs to your protective overall sleeves with tape to prevent them from sliding down.

Storage Guidelines

- Keep container upright and unopened
- Keep dry and avoid prolonged
- Exposure to direct sunlight, rain and other adverse elements.
- Polyform should be stored between -20°c and 50°c

This information is intended as a guideline only. For more information please refer to Health & Safety MDS.

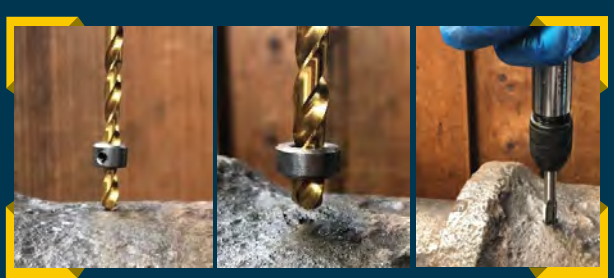
Step 1: Drill & Tap

Drill a 4mmØ pilot hole 10mm deep

Open out to 11/32"Ø and thread using a 1/8" BSP Tap

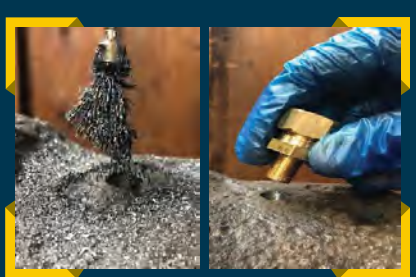
Please note you are only drilling a blind hole in step one

Tip: that the preferred injection point for a lead yarn joint is through the face



Step 2: Injection Body & Fitting

Tap the hole with a remove swarf using a magnet, screw the injection body into the hole.



Step 3: Injection Line Fitting

Drill a 4mmØ hole through the injection body until contact is made with the spigot, fit the injection line.

You can receive complimentary product training please get in touch via phone or email for additional details.

Ecoseal Repair System

USER GUIDE

Step 4: Product Application

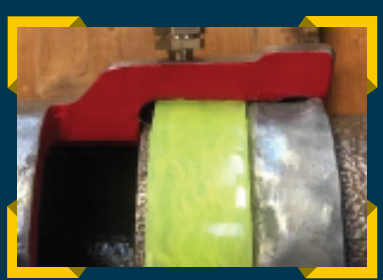
Dispense the required amount of sealant.

Step 5: Cap Fitting

Screw the cap onto the injection body fitting to complete seal, carry out a leak test, using detection fluid.

Step 6 : Completed Repair (Internal)

Backfilling can begin immediately. It is recommended that soft sand be used before replacing sharp stones.



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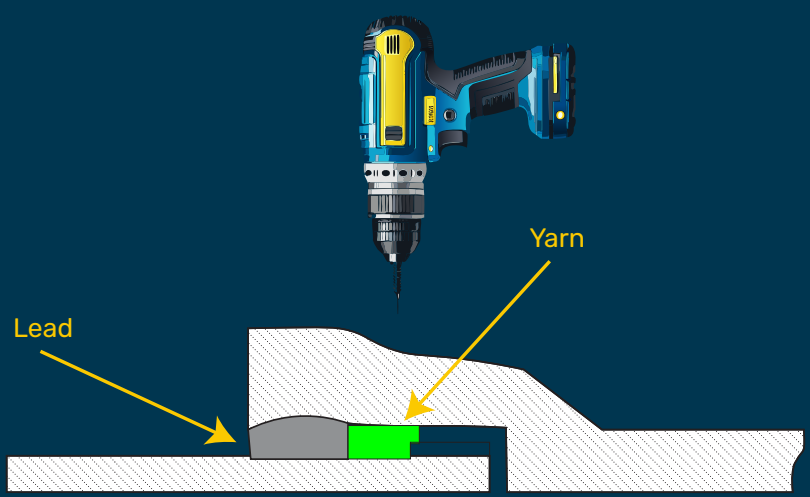
Ecoseal Injection Guide

The images are for illustrative purposes only and are

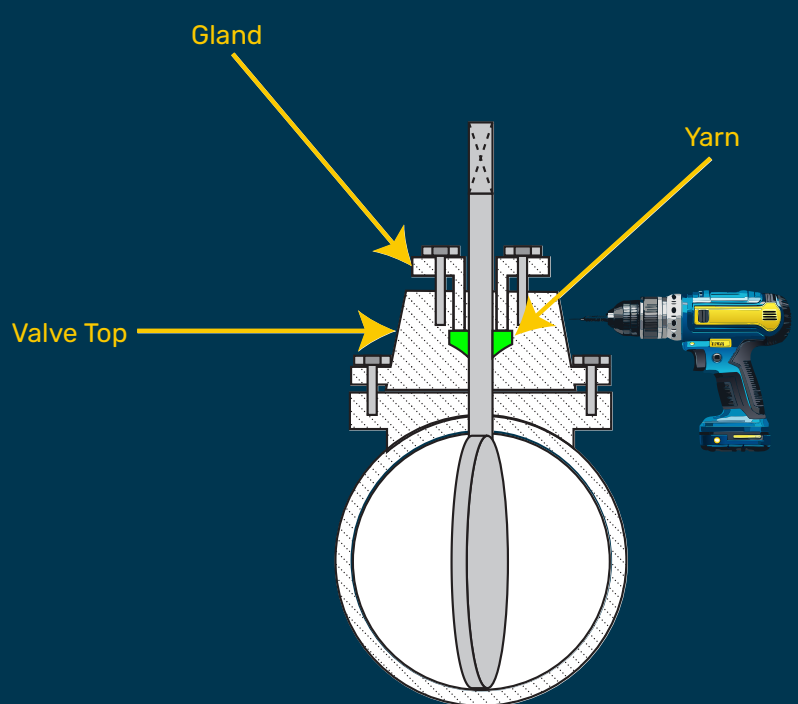
Lead Yarn Joint



Area for sealant marked in green

Drill at the back of the bell housing. If you get lead chips when drilling, move back slightly until you get a clear drill path and gas escaping.

Valve



Area for sealant marked in green

Drill into the valve top up to the yarn

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Ecoseal Injection Guide

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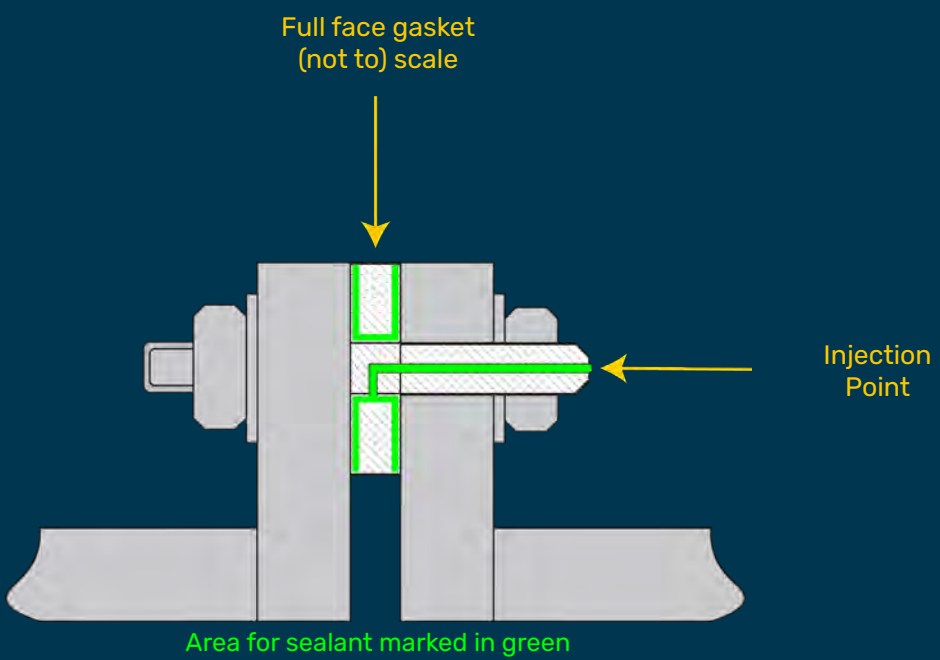
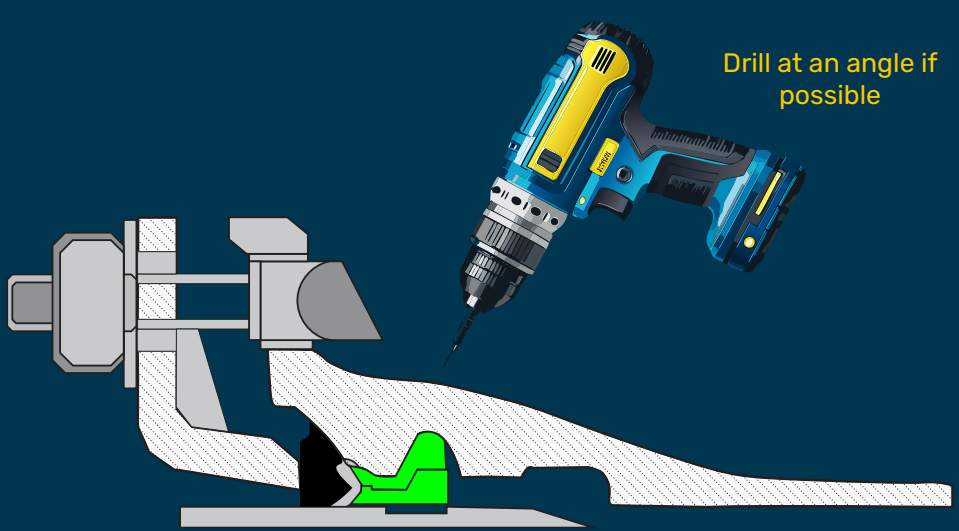
Flange



Stavley Hook Bolt



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Ecoseal Injection Guide

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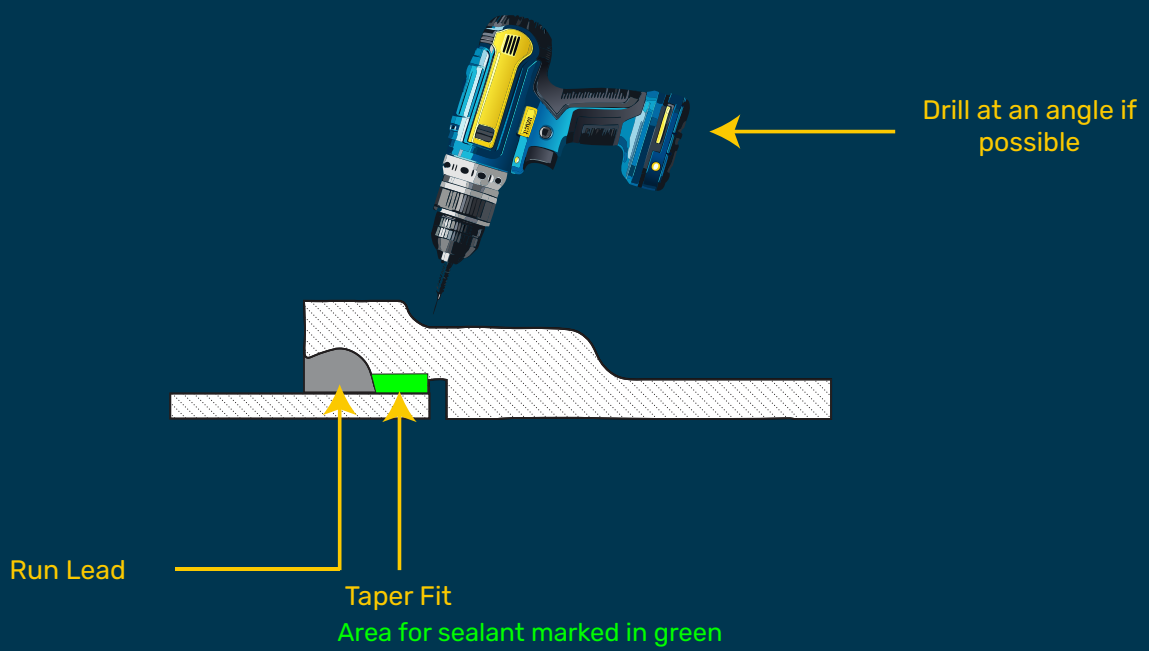
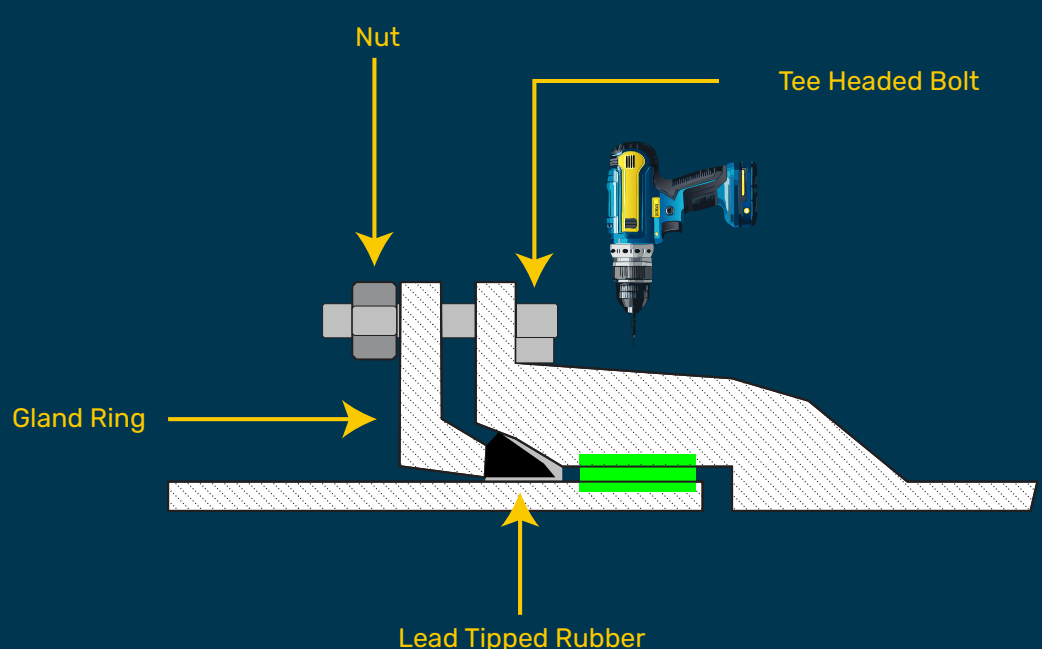
Half Turned & Bored



Stanton Staveley



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Ecoseal Injection Guide

The images are for illustrative purposes only and are

External Injection system designed to repair leaks in tightly packed lead yarn joints

The kit uses Ecoseal to repair leaks and can be used under live conditions. It is suitable for pipe diameters up to and including 48”.

The kit contains a through the face directional nozzle and nozzle guide, which enable the operator to direct the sealant to all the required areas.

The through the face nozzle guide has a built in gas tight diaphragm to reduce the presence of gas and the directional nozzle fits onto standard Ecoseal injection lines.

The through the face directional nozzle can be reused after cleaning and a step-by-step application guide can be provided on request.

These images were taken at a live site repair carried out at Tottenham Holder Station on a 38” lead yarn main. In the second image, Ecoseal has been successfully injected. The lack of bubbles indicates the leak has been repaired.

You can receive complimentary product training please get in touch via phone or email for additional details.

Ecoseal Injection Guide

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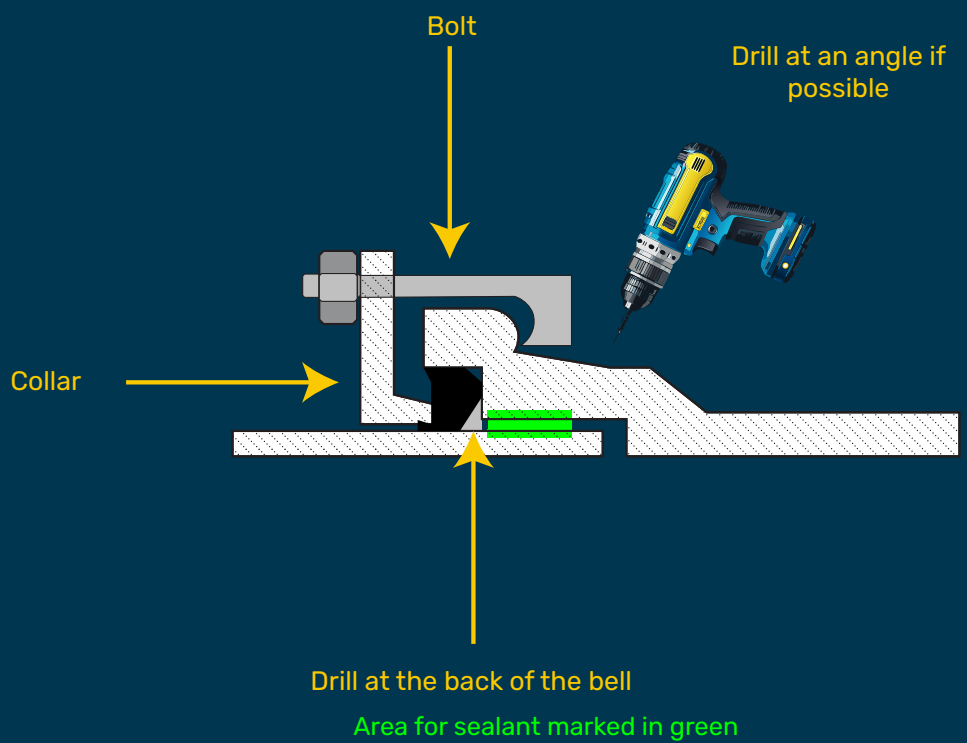
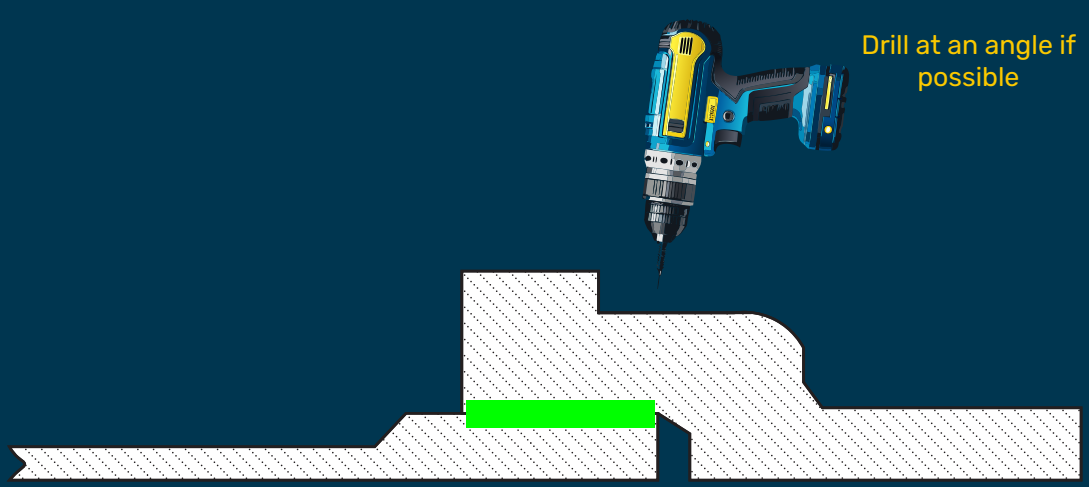
Hook Bolt



Full Turned & Bored



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Ecoseal Injection Guide

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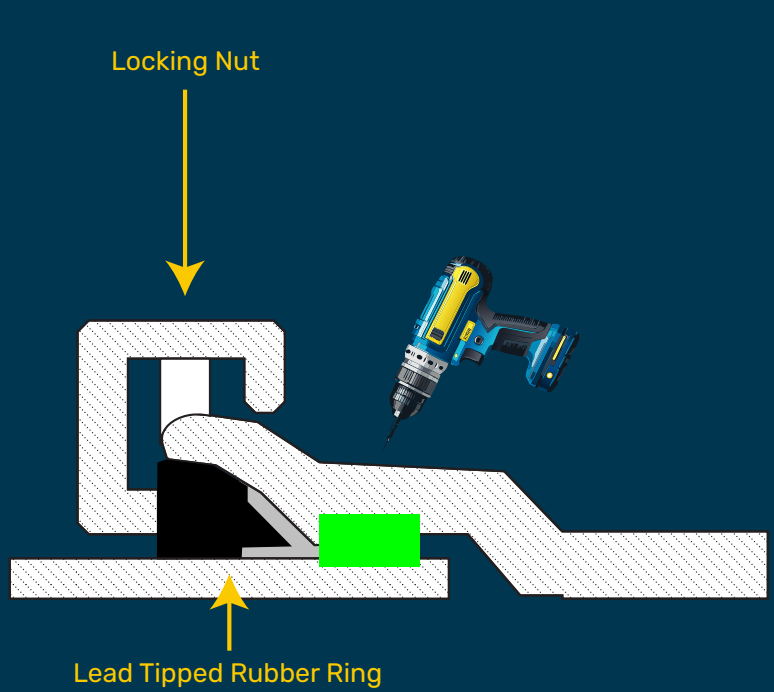
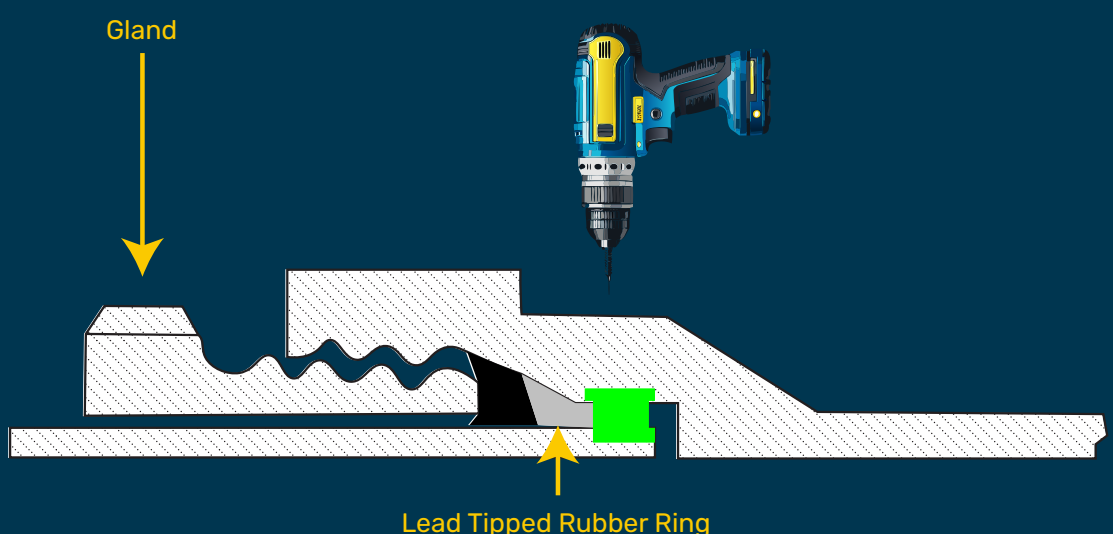
Stanton Wilson



Area for sealant marked in green
Drill at the back of the bell housing

Screwed Gland



Area for sealant marked in green

Drill at the back of the bell housing

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Ecoseal Injection Guide

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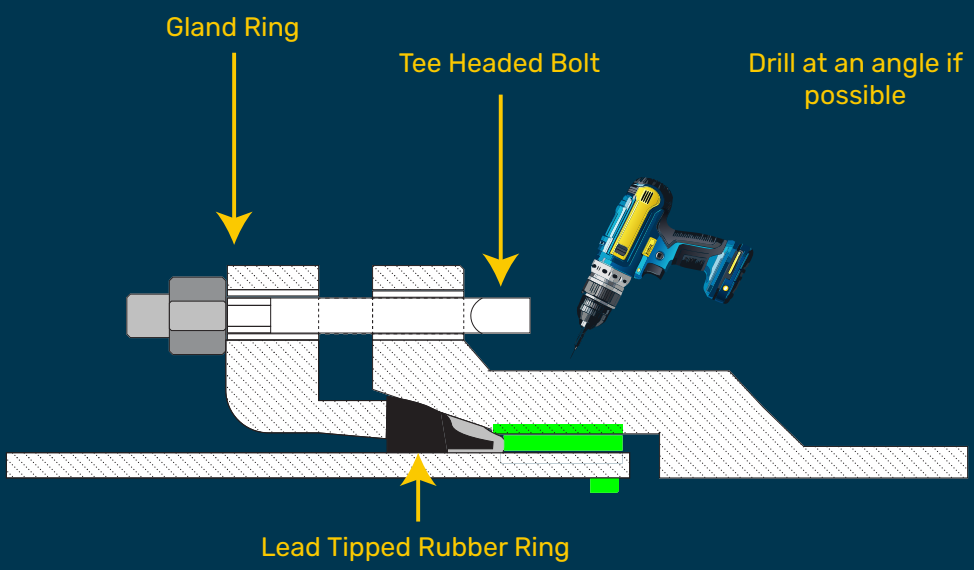
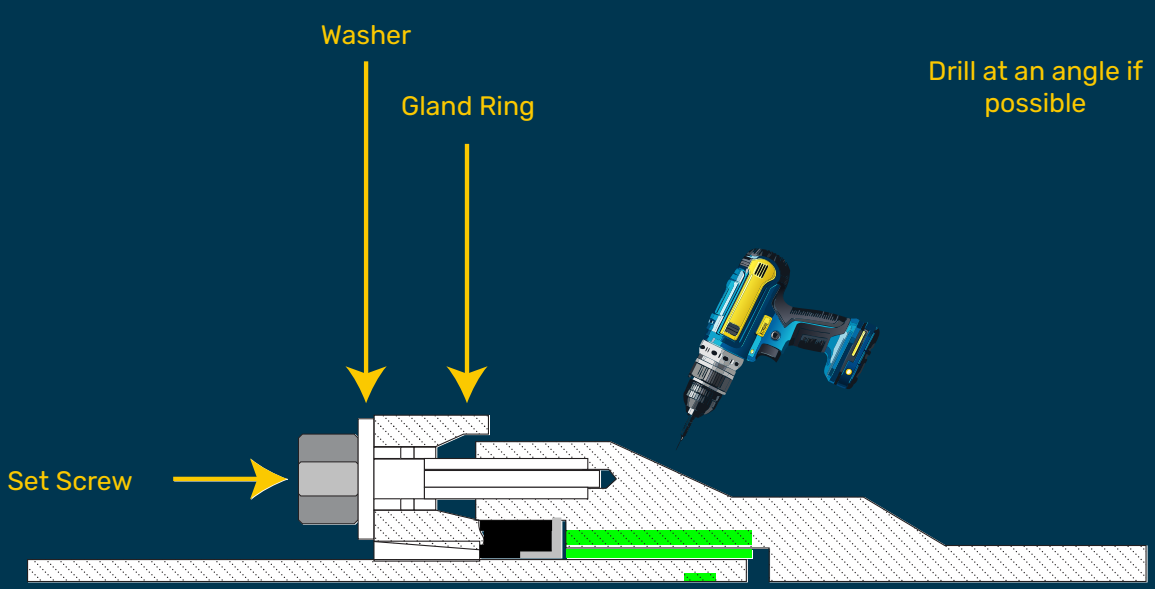
Bolted Gland



Drill at the back of the bell
Area for sealant marked in green

Clay Cross Set Screw



Drill at the back of the bell housing preferably at an angle
Area for sealant marked in green

You can receive complimentary product training
please get in touch via phone or email for additional details.

Ecoseal
Quantity Guide

Ecoseal

Quantity guide for lead yarn and mechanical repairs

Size of Main	Recommended **Minimum** Cartridges of Ecoseal
3" to 6"	1
8" to 10"	2 1/2
12" to 14"	3
16" to 18"	3 1/2
24" and above	4

Tables are for guidance only

Tooling List

Below is a list of tooling equipment required for the application of Ecoseal.
This equipment is available from your own supply stores or directly from MW Polymers.

MW Polymers direct ordering code	Description
3409	Cartridge Dispenser
3078	'O' clip pliers
5154B	18mm/ 19mm Spanner
5154D	4mm diameter drills with depth collar (HSS)
5154N	4mm diameter drills without the depth collar (HSS)
5154E	8.5mm diameter drills with depth collar
5154F	1/8 inch BSP TAP Assembly
5154H	Magnet (for removing swarf and drill chippings)
5154T	Complete tool box (with all above items)
2060	Through the face adaptor
2061	Through the face directional nozzle

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please get in touch via phone or email for additional details.

Ecoseal Repair System

Case Study

MW Polymers works in partnership with a Scottish Utility firm using Ecoseal & Polyform™ on a Gas Holder

Project Overview

The leaking gas holder station posed a critical challenge, particularly with a compromised rising arm that exhibited both leaks and corrosion. The urgency to address this issue stemmed from the potential safety hazards associated with gas leaks and the structural integrity risks posed by corrosion. In response to this pressing situation, a comprehensive and strategic plan was implemented.

Firstly, a thorough assessment of the extent of the leaks and corrosion was conducted to gauge the severity of the situation. This involved employing advanced inspection techniques to identify weak points and vulnerable areas in the rising arm structure. The leaking points were carefully identified to develop a targeted plan for remediation.

The next step involved immediate containment measures to minimize the risk of gas dispersion. Emergency protocols were enacted, and temporary seals were applied to the leaking points to prevent further gas escape. Simultaneously, safety measures were implemented to protect personnel and the surrounding environment.

MW Polymers Solution

The cleaning process meticulously removed any debris or contaminants from the surface, ensuring a pristine foundation for the subsequent steps. To address the leaking area, our specialized medium pressure vent kit was employed, effectively channeling and managing any excess pressure. This innovative solution not only curtailed the leakage but also provided a controlled release of pressure, mitigating potential damage.

Following the successful venting, a layer of Polyform, a resilient and adaptive material, was expertly applied over the vent system. This step not only enhanced the durability of the structure but also added an extra layer of protection against potential future issues. The Polyform acted as a reliable barrier, fortifying the vented area and contributing to the overall structural integrity.

To culminate the process, a meticulous application of Ecoseal was executed to provide the final seal. Ecoseal, known for its superior sealing properties, formed a robust and impermeable barrier, effectively safeguarding the treated area from external elements. This comprehensive approach ensured a thorough and long-lasting solution, guaranteeing the structural soundness and resilience of the system. The combined use of the medium pressure vent kit, Polyform, and Ecoseal not only addressed the immediate concern but also fortified the entire structure against potential future challenges.

Result

As a result of the meticulous cleaning process, the surface was transformed into an immaculate foundation, free from any debris or contaminants. The specialised medium pressure vent kit successfully tackled the leaking area, not only putting an immediate stop to the leakage but also ensuring a controlled release of pressure. This intervention not only prevented further damage but also established a more secure operational environment.

The application of Polyform added a layer of resilience and adaptability to the vent system, significantly enhancing the overall durability of the structure. This not only addressed the immediate issue but also served as a proactive measure against potential future challenges, acting as a reliable barrier that fortified the vented area. The use of Polyform contributed substantially to the structural integrity of the entire system.

The final seal, executed with the meticulous application of Ecoseal, marked the culmination of the comprehensive solution. Ecoseal's superior sealing properties created a robust and impermeable barrier, effectively shielding the treated area from external elements. This final step ensured not only an immediate resolution to the problem but also guaranteed the long-term structural soundness and resilience
of the entire system.

PE Repair Kit

Approved for use on live gas mains to
Gas Industry Standard (GIS) LC8 & DVGW Din Standard 30658

GAS | ELECTRIC | WATER | OIL | HYDROGEN

NO SQUEEZE OFF | NO CLAMPS | INSTANT REPAIR

The P.E repair kit system is for the immediate remediation of damage holes in polyethylene pipelines whilst under live* conditions

The kit enables the operator to immediately stop the leak, minimising the disruption to supply

Typical examples of damage would be a digger bucket tooth strike or puncture caused during excavation

This system is a cost effective alternative to 'cut outs'

Achilles UVDB SILVER PLUS | DIN DVGW CERT | ISO 9001 QUALITY MANAGEMENT | UKAS MANAGEMENT SYSTEMS | IGEM | THE PIPELINE INDUSTRIES GUILD

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FEATURES

- Instant Repair
- Single Person Application
- Allows For Pipe Misalignment
- Excellent Flexibility
- Waterproof Once Cured

APPLICATIONS

- Gas
- Waste Water
- Upto & Including 100 mbar
- Scar Damager

PIPE MATERIALS

- Plastic
- P.E 80
- P.E 100
- PVC

ADDITIONAL EQUIPMENT

- Polyform Resin
- Low Pressure Kit

You can receive complimentary product training
please get in touch via phone or email for additional details.

PE Repair System

USER GUIDE

Step 1: Preparation

Begin by ensuring you have all the items lisited on the insert in the P.E kit this will include the following: Bottle of Pre Coat, Foam Strips x 2, P.E Cleaning Fluid Disposable Knife, Blue Vinyl Gloves, Nitrile Rubber & Mastic Pad

Step 2: PPE

Please ensure you follow your companies PPE and COSHH

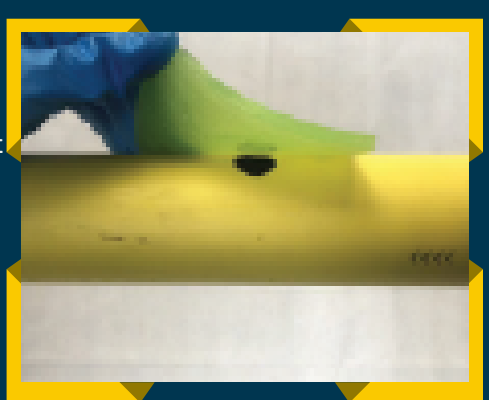
Take the gloves out of their packaging and from the PE kit. Wear the sturdy gloves, and it's advisable to secure the glove cuffs to your sleeves with tape to prevent them from sliding down. Remember to wear gloves along with other essential PPE items such as steel-toe boots, safety glasses, overalls, and any other required equipment on the site.

Step 3: Inspection of the damaged area

The size of the damaged area will determine the amount of Polyform required to complete the repair and wipe clean the area Refer to Polyform user guide for more information on how to apply signifying that you are prepared to apply the Polyform.

Step 4: The mastic pad application will cut down the leaking volume of gas

Apply the mastic pad over the damaged area
Note: due to the consistency of the underside of the mastic pad, it is unlikely to come off once stuck down



You can receive complimentary product training
please get in touch via phone or email for additional details.

PE Repair System

APPLICATION GUIDE

Step 5: Applying Nitrile Rubber

Wrap the mastic pad with black rubber tape

Step 6 : Ensure The Nitrile Rubber is Secure

Secure both ends of the rubber with tape to ensure a consistent tight grip around the pipe

Step 7: Clean The Pipe

Clean the pipe using the solution provided to remove any grease and dirt. This will dry out the pipe, which will aid adhesion.

Step 8: Polyform

Follow next steps in Polyform user guide

See Pages 08-09

You can receive complimentary product training please get in touch via phone or email for additional details.

Technical Data

Quantity Guide

PE Repair Kit

This list is an estimate based on basic types of mains. It was produced by MW Polymers and National Grid. These quantities may vary considerably on different mains.

Size of Main	Litre of Polyform™	Number of PE Kits
63mm	1 1/2	1
90mm	2 1/2	1
125mm	4	1
180mm	6	2
250mm	9	2
315mm	12	2

Tables are for guidance only

If you have any queries, please contact MW Polymers directly on 01332 835001.

You can receive complimentary product training please get in touch via phone or email for additional details.

PE Repair System

Case Study

MW Polymers works in partnership with a the a Brisith utility firm using a P.E Repair Kit on a leaking fusion socket to immediaty stop the leak

Project Overview

utility company responsible for managing and maintaining pipelines in the East Anglia region of the United Kingdom, encountered a challeng-ing situation. They faced a critical issue with a leaking fusion joint within a polyethylene (P.E) pipeline, and what made the situation even more complex was the need to address this problem while the pipeline remained operational, under live conditions.

The term “fusion joint” typically refers to a method of joining two sections of a pipeline by melting the ends of the pipes and fusing them together to create a seamless and durable connection. When such a joint begins to leak, it poses significant risks, including potential environ-mental hazards and service disruptions. This made the repair task all the more urgent and essential.

MW Polymers Solution

The P.E Repair kit is a valuable tool designed to provide pipeline operators with a quick and effective solution for addressing leaks without requiring any specialized tools or equipment. This kit is particularly useful when dealing with puncture damage that has occurred on the body of a polyethylene (P.E) pipe, which can be attributed to various factors, such as accidental impacts, often caused by heavy machinery like a digger backhoe bucket tooth.

When puncture damage occurs on a pipeline, it is a matter of significant concern, as it can lead to the unintended release of the pipe’s contents, which could range from water and gas to other materials. To ensure the safety of the pipeline, the environment, and the surrounding area, it’s essential to address these punctures promptly.

The P.E Repair kit simplifies the repair process by offering a solution that doesn’t demand the use of special tools or equipment. This ease of use is crucial, as it allows operators to respond swiftly to the puncture damage without unnecessary delays. Rapid re-sponse is particularly important because it minimizes the potential consequences of a leak, such as environmental contamination, service interruptions, and safety hazards.

Furthermore, after the puncture damage has been addressed using the P.E Repair kit, an additional protective measure is taken by applying a material called Polyform™. This coating or material is specifically designed to enhance the pipe’s resistance to future impacts. In essence, it acts as a protective shield, reducing the risk of similar damage occurring in the future.
By employing the P.E Repair kit and applying Polyform™, operators not only stop the leak promptly but also proactively fortify the pipeline to prevent similar issues caused by accidental impacts. This approach ensures the longevity and reliability of the pipeline

Result

The repair was executed with remarkable swiftness, allowing it to be conducted without interrupting the operation of the live main. This rapid response and the ability to carry out the repair on an active primary pipeline showcase the efficiency and expertise of the maintenance team involved. It ensured minimal downtime and reduced the impact on services reliant on the live main, underscor-ing the importance of quick and seamless solutions in maintaining the continuity of critical infrastructure.

M.O.B.S RISER SYSTEM

Permanent repair of corroded pipe clips on rises and laterals up to 3" Diameter

MOBS has a 50 YEAR LIFE standard APPROVED TO GIS LC8

MW Polymers have designed an Anti-Corrosion sleeve system that protects corrosion found on metal pipework on mid & high rise buildings & protects against further corrosion.

The aesthetically designed sleeves, are quick & easy to fit

Supply remains uninterrupted with little or no disruption to the customer

Once the sleeve kit is fitted, resin is injected to prevent further corrosion

The resin purchased separately to the sleeve kit, reducing waste as cartridges can be used for multiple applications

This System is approved to Gas Industry Standard (GIS) LC8

Meets safety standard UL94 for flammability of plastic

Click For More Information

FEATURES

- Supply Remains Uninterrupted
- Single Person Application
- Suitable For Internal & External Corroded Pipes
- Galvanic Protection Included
- Cost Effective Vs Replacement
- Bespoke Design Service Available

APPLICATIONS

- Gas
- Electric
- Waste Water
- Oil
- Hydrogen

PIPE MATERIALS

- Steel
- Cast Iron
- Ductile Iron

ADDITIONAL EQUIPMENT

- Injectable Resin
- Injection Line
- Dispenser
- Precoat Kit

You can receive complimentary product training
please get in touch via phone or email for additional details.

FPS-30 Repair System

Permanent repair of leaking or corroded pipe clips on rises and laterals up to 3" Diameter

FPS-30 has a 50 YEAR LIFE standard APPROVED TO GIS LC8

FIRE RESISTANT REPAIR SLEEVE

Use over a shrink sleeve to provide fire protection or as a first response to corriosion protection

FPS-30 is approved to be used over shrink sleeves to provide fire resistance of *650°C for 30 minutes, maintaining a leak free seal

BS 1775* FIRE PROOF

Achilles UVDB SILVER PLUS

Click For More Information

FEATURES

- Supply Remains Uninterrupted
- Single Person Application
- Suitable For Internal & External Corroded Pipes
- Galvanic Protection Included
- Cost Effective Vs Replacement
- Bespoke Design Service Available

APPLICATIONS

- Gas
- Electric
- Waste Water
- Oil
- Hydrogen

PIPE MATERIALS

- Steel
- Cast Iron
- Ductile Iron

ADDITIONAL EQUIPMENT

- Injectable Resin
- MS359 Grip Seal

You can receive complimentary product training please get in touch via phone or email for additional details.

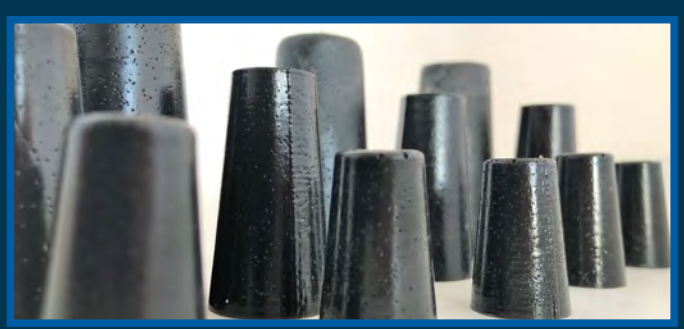
BARHOLE PLUGS

Plugs, specifically designed to fill bar holes & cores, which if left untreated can lead to potholes

The pre-formed plugs are cured, non-toxic and made of a flexible polymer, which can be removed if required

Additionally, they will not stick together when hot or become brittle in cold weather

Available in a variety of sizes and in a cartridge format



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Click For More Information

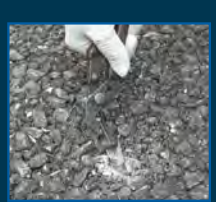
FEATURES

- High Quality & Durable
- Multipe Sizes Available
- Excellent Flexibility
- Removable if Required
- Easy Application
- Cartridge Format Available

Sizes

- 8mm
- 9mm
- 10mm
- 12mm
- 20mm
- 25mm
- 32mm
- 40mm
- 50mm
- Cartridge*






You can receive complimentary product training please get in touch via phone or email for additional details.

Anaerobic Threadsealant

Permabond® F201HV

KIWA and WRAS approved anaerobic adhesive which has been developed to give excellent resistance to peel and impact forces.

Anaerobic Retainer

KIWA and WRAS approved anaerobic adhesive which has been developed to give excellent resistance to peel and impact forces.

This toughening, combined with good adhesion to aluminum and copper alloys, makes it the first choice where relatively thin or light weight components are being bonded which may be subject to "distortion" in service. It is also capable of resisting the thermal stresses that may be generated when bonding dissimilar surfaces.

F201HV is KIWA certified for use with hydrogen, making it ideal for sealing hydrogen pipelines, valves, couplings, and other fixtures

WRAS listed for contact with wholesome (potable) water

Click For More Information

You can receive complimentary product training
please get in touch via phone or email for additional details.

Anaerobic Threadsealant

Permabond® A131

KIWA and WRAS approved anaerobic adhesive which has been developed to give excellent resistance to peel and impact forces.

Anaerobic Threadsealant

Permabond® A131 is a specialized anaerobic adhesive approved by KIWA Hydrogen and WRAS for sealing threaded metal pipe connections in critical applications.

Suitable for both parallel and tapered threads, it is ideal for systems transporting various gases and liquids, including potable water.

Its delayed cure time allows for precise alignment during assembly, while providing an immediate and durable pressure seal that minimizes maintenance.

The adhesive also facilitates easy disassembly with standard tools, making it a reliable and versatile choice for hydrogen, potable water, and other critical fluid systems.

Click For More Information

You can receive complimentary product training
please get in touch via phone or email for additional details.

Product Codes

MW Polymers Direct Order Code	Product Description
1618	Polyform 0.5 Ltr Pack
1619	Polyform 1 Ltr Pack
1620	Polyform 2 Ltr Pack
1621	Precoat Kit
1622 / 1627	LP Wrapping Kit
1623	MP Repair Kit (2 bar)
1624	PE Repair Kit
1626	Riser Kit
3176	8mm Bar Hole Plug
3177	9mm Bar Hole Plug
3169	10mm Bar Hole Plug
3170	12mm Bar Hole Plug
3171	20mm Bar Hole Plug
3172	25mm Bar Hole Plug
3173	32mm Bar Hole Plug
3174	40mmBar Hole Plug
3175	50mm Bar Hole Plug
3159	Clear Bar Hole Cartridge 400ml
3160	Black Bar Hole Cartridge 400ml
3168	AA Poly Plug
3625	Ecoseal Ultra Thin Green - 6 per box
3624	Ecoseal LV Thin Yellow - 6 per box
3386	Ecoseal Mechanical Thick Red - 6 per box
3410	ECOseal Injection Line (400 per pallet)
3409	Cartridge Dispenser - (VBM200X Bi-Mixer) code AP12011X
3006	Pipe Cleaning Belt
5154(T)	Ecoseal Tool Box Complete
F201HV	F201HV Anaerobic Sealant - Permabond
A131	A131 Anaerobic Sealant - Permabond
MS359	Grip Seal MS359 - Permabond

Enquire for MOBS kit and FPS Sleeve

BESPOKE SERVICES ALSO AVAILABLE

You can receive complimentary product training
please get in touch via phone or email for additional details.

Contact

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