



# Dantech Group

## Application Sheet GRE Pipe Repair

Experts in Corrosion control

Surface restoration

surface protection

In-situ repairs



### Products and tools needed.

- ✓ Wencon UW Coating (1035 / 1036)
- ✓ Wencon Reinforcement Tape (1120 / 1122)
- ✓ Wencon Bio Cleaner (1104)
- ✓ Wencon Rotating Blaster "duo or trio" (1252 / 1254)
- ✓ Wencon Application Tools

### We have tailored repair kit for:

- Size DN 250
- Size DN 500
- Size DN1000

Note: we can tailor a kit to match your exact needs

# WENCON®

### Application guidance:

Proper surface preparation is critical for achieving great adhesion on GRE pipes. Following these steps and adhering to the coating manufacturer's instructions and industry standards will help ensure a strong and durable bond that can withstand the harsh environments often met in industrial applications. Always take proper safety precautions, such as wearing protective gear and working in well-ventilated areas, when handling abrasive materials, adhesives, or coatings.

### Application guidance Pipe leakage Repair:



1. **Clean and prepare the surface:** The first step in preparing surface roughness on the GRE pipe is to ensure that the surface is clean and free from any dirt, dust, grease, or other contaminants (*minimum of ½ pipe diameter on each side of the leak*). Use the Wencon bio cleaner or another suitable cleaning agent or solvent, such as acetone or isopropyl alcohol.
2. **Roughen the Surface:** Roughness of the surface of the GRE pipe is essential as it promotes the adhesion (*minimum of ½ pipe diameter on each side of the leak*). Use the **Wencon rotating blaster** or another suitable abrasive material, such as sandpaper grit 60-80 minimum, or abrasive blasting, to roughen the surface.
3. Now apply a thick layer of Wencon UW Coating, ensure covering the area around the leak (Approx. 500µ/microns)
4. Wrap Reinforcement Tape in the wet coating with a 50% overlap and make sure the coating is enough to penetrate the weaving in the reinforcement tape.
5. Repeat until minimum 3 layers of reinforcement tape and 4 layers of UW Coatings is obtained.
6. Allow 6-8 hours curing time before operating the pipes (Curing time can be significantly reduced by applying heat to the repaired area. I.e., simple heating fan etc.)

### Failed attempt(s) to repair GRE pipe-flange connections:



Very often asset owners contact us after one or more failed attempts to repair pipelines, which could have been avoided by having the right products, right tools and the right application guidance. I.e., **by having a Wencon Repair Kit right at hand.**

The customer realizes that failed attempts to repair for example GRE pipes are a very costly learning experience.

By knowing the importance of professional knowledge and expertise in dealing with pipe repairs among other things, you will significantly minimize costly downtime as well as failed repair attempts.

### Application guidance Displaced pipe at flange area:



1. **Clean and prepare the surface:** The first step in preparing surface roughness on the GRE pipe and on the flange is to ensure that the surfaces are clean and free from any dirt, dust, grease, or other contaminants (*the pipe: minimum of 1.5 times the thickness of the pipe flange, and inside of the flange minimum half the flange thickness*). Use the Wencon bio cleaner or another suitable cleaning agent or solvent, such as acetone or isopropyl alcohol.
2. **Roughen the Surface:** Roughness of the surface of the GRE pipe and the inside of the flange is essential as it promotes adhesion (*the pipe: minimum of 1.5 times the thickness of the pipe flange, and inside of the flange minimum half the flange thickness*). Use the **Wencon rotating blaster** or another suitable abrasive material, such as sandpaper grit 60-80 minimum, or abrasive blasting, to roughen the surface.
3. Apply a thick layer of Wencon UW Coating on inside of the pipe flange equivalent to approx. half the thickness of the pipe flange
4. Apply a thick layer of Wencon UW Coating on outside of the pipe equivalent to approx. 1.5 times the thickness of the pipe flange
5. Now reassemble the pipe and flange back to original length
6. Use the paintbrush to ensure an even layer of coating around the flange connection. I.e., make sure that the coating fills any gap between the flange and the pipe
7. Allow for curing 6-8 hours before operating the pipes (Curing time can be significantly reduced by applying heat to the repaired area. I.e., simple heating fan etc.)

### Real time application:

Our certified applicators are experts in in-situ repairs, plus they can help train your crew/staff while conducting the repair.

**WENCON GRE Pipe Repair Kit: “Works excellent both above and below the waterline”**

These innovative products “Specially designed for repair of pipes and structures located in wet or high humidity conditions where dew point can cause an adhesion problem for standard method” is a game-changer when it comes to repairing and maintaining a large variety of materials including all steel and metal alloys, GRE materials as well as other composite materials.

**In conclusion:** the Wencon GRE Repair Kit is a complete solution and has proven highly suitable for in-situ repair of among other things: **“GRE” Scrubber and Ballast Pipes, Steel scrubber overboard pipes, Scrubber tanks, Scrubber towers, “hull” scrubber wash water area, Steel seawater/ballast water Pipes, Cargo Pipes, Oil Pipes, chemical pipes, fuel pipes, Cable Pipes, sea chests, seawater strainers** and much more.

Don't let cracked, leaking or damaged Steel or GRE structures compromise the safety and integrity of your operation. Try out the Wencon GRE Repair Kit now.

**WENCON GRE Pipe Repair Kit:**

We offer a series of 3 different GRE Pipe Repair Kits. I.e., for pipe diameters DN250 (Ø250mm), DN500 (Ø500mm) and DN1000 (Ø1000mm) *“however, we can tailor any kit to meet your specific needs”.*

The mentioned kit(s) include sufficient quantities of materials for repairing a pipe length damage of 3ft (1000mm). including the application guidance, application tools, Bio cleaner and rotating blaster disc for surface preparations.

**Item 8740 GRE Pipe Repair Kit DN250 (Ø250mm) include:**

- 3 pcs Wencon UW Coating orange, wet surface 1035
- 3 pcs Wencon UW Coating Brown, wet surface 1036
- 1 pcs Wencon set Application Tools
- 1 pcs Rotating Blaster Duo Disc 1252
- 4 pcs Wencon Reinforcement Tape 50mm x 10m 1120
- Shipping: 1 x Package measuring approx. 15x12x14 Inch / 15Lbs (40x30x35cm /7,0 kg)

**Item 8741 GRE Pipe Repair Kit DN500 (Ø500mm) include:**

- 6 pcs Wencon UW Coating orange, wet surface 1035
- 6 pcs Wencon UW Coating Brown, wet surface 1036
- 1 pcs Wencon set Application Tools
- 1 pcs Rotating Blaster Duo Disc 1252
- 3 pcs Wencon Reinforcement Tape 100mm x 20m 1122
- Shipping: 1 x Package measuring approx. 23x15x8 Inch / 24Lbs (60x40x20cm /11,0 kg)
- Shipping: 1 x Package measuring approx. 11x10x5 Inch / 2.2Lbs (28x25x10cm /1,0 kg)

**Item 8742 GRE Pipe Repair Kit DN1000 (Ø1000mm) include:**

- 12 pcs Wencon UW Coating orange, wet surface 1035
- 12 pcs Wencon UW Coating Brown, wet surface 1036
- 1 pcs Wencon set Application Tools
- 1 pcs Rotating Blaster Duo Disc 1252
- 5 pcs Wencon Reinforcement Tape 100mm x 20m 1122
- Shipping: 2 x Package each measuring approx. 23x15x8 Inch / 24Lbs (60x40x20cm /11,0 kg)

**Transport information:**

All products are **non-hazardous products** and can be shipped by Air, Sea, Road and Rail without Dangerous Goods Documents

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ALL PRODUCTS ARE CLASS TYPE APPROVED BY:

