

## Full Pipe Repair Using a Combination of *Unique* Products

This document will explain how to carry out a full pipe repair using the following *Unique* products:

- UPS 19000 RH Standard Resin & Hardener
- UPS 19002/3 A&B Cement
- UPS 19060 SG Stick Grade Metal Repair
- UPS 19007 GT Glass Tape



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### 1. Surface Preparation

Prepare the pipe surface using Glass Paper, Wire Brush, Power Grinding Tool, etc.,



### 2. Application of UPS 19060 SG Stick Grade Metal

Mix the UPS 19060 SG Stick Grade Metal Repair by simply cutting off the appropriate amount and kneading in hands until uniform colour has formed. The UPS 19060 SG can cure on damp surfaces too.



### 3. Plugging of Holes

Plugging the hole with the mixed UPS 19060 SG – will cure within 10 minutes @ 20°C (68°F). There is also a support silicone bandage for this application if there is an amount of pressure (UPS 445, UPS 456 TA Leak Stopper).



### 4. UPS 19002/3 A&B Cement Application

Mix the UPS 19002/3 A&B Cement (1:1 by volume) until fully mixed and uniform colour is formed. Then apply the Cement to the plugged area.



5. Polythene Sheet

Polythene sheet applied to smooth and profile the rough UPS 19002/3 A&B Cement.



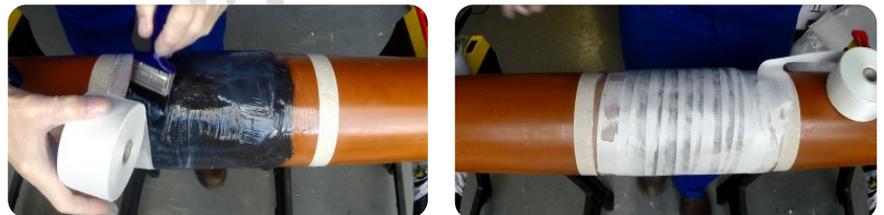
6. Mixing & Application of UPS 19000 RH Standard Resin & Hardener

Mix the UPS 19000 RH (Base & Activator), until thoroughly mixed and uniform colour is formed. Once mixed remove the Polythene Sheet (if applicable) and paste the first layer of Resin all over the pipe to be wrapped.



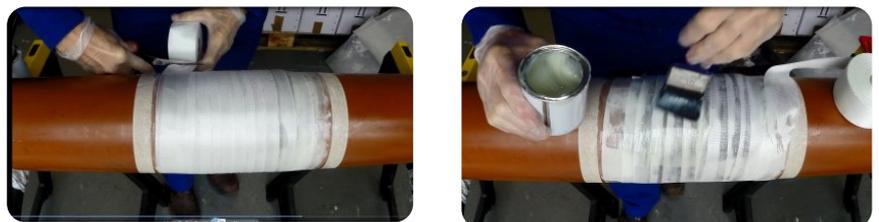
7. First wrap of UPS 19007 GT Glass Tape

Wrap the UPS 19007 GT around the pipe, exceeding the length of the repair. Always move in one direction fully, allowing for a 50% overlap until the repair area has been exceeded.



8. Second Application of Resin & Glass Tape

Apply the second layer of Resin mix over the Glass Tape. Then wrap with the Glass Tape back the other way (Building the Resin / Glass wrap).



9. Third Layer

Once the second Glass Tape wrap has finished, repeat the process again with the Resin Mix and Glass Tape for a third time. Finally apply a further layer of Resin mix on top of the Third wrap of Glass Tape.

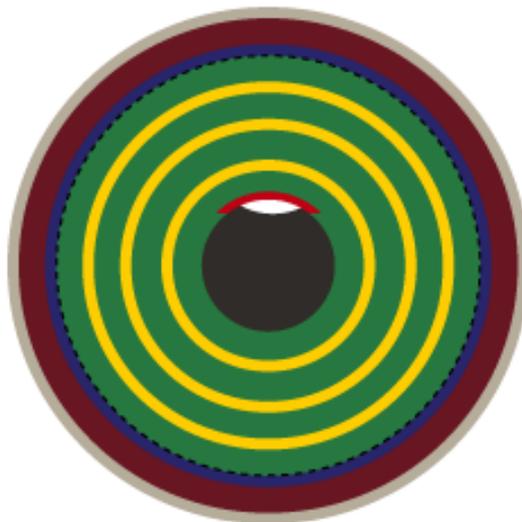


10. Application Completion

In total you require 4 Resin Mix layers and 3 Glass Tape layers.



Pipe Wrapping Combinations - Max Temp 170°C / 338°F



Key

-  Hole repaired with A&B Cement or Metal Repair
-  Pipe
-  Contour Cloth
-  Resin & Hardener
-  Glass Tape
-  Glass Mat
-  Linen Scrim
-  Cellophane

max 500 psi / 31 bar  
 max 1600 psi / 100 bar

***This Full Pipe Repair can be carried out with the UPS 11000 'A' Kit. This kit contains all the items needed to repair any size pipe up to 1600 psi. Please contact Unique Polymer Systems LTD for further details:***

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