

## **How Much Do I Need?**

Pipe Sizes 20mm – 400mm – USE THE SINGLE PIPEWRAP BANDAGE.

- ✓ 20mm – 100mm SIZE 19601 50mmx1.6m
- ✓ 100mm – 200mm SIZE 19603 50mmx3.6m
- ✓ 200mm – 300mm SIZE 19604 75mmx3.6m
- ✓ 300mm – 400mm SIZE 19605 100mmx3.6m

For pressures ABOVE – USE TWO BANDAGES over damaged area

For Pipe Sizes ABOVE 400mm and with pressures UNDER 500 psi - 32 bar use the 19000 Resin and Hardener PLUS the 19007/8/9/11 Special Reinforced Glass Tape.

For Pipe Sizes ABOVE 400mm and with a pressure ABOVE 500 psi – 32 bar and up to 1600psi – 100 bar use the above same SYSTEM but WITH ADDED Special Reinforced Glass Matt and Linen Scrim (see manual here)

To work out how much product you need –

19000 Resin & Hardener (supplied in 10x225 gram boxes), the recommended coverage at a recommended thickness of 450 microns wet film thickness is 0.35m<sup>2</sup> / 1 x 225 gram unit.

19007 Special Glass Tape is 50mm wide x 50 m long -19009 is 100mm wide x 50m long – 19011 is 150mm wide x 50m long. The TAPE MUST be applied with a 50% overlap.

To work out the amount of products needed for the specific application – you will need to know the area to be coated.

✓ **e.g. –**

## **RESIN & HARDENER**

Pipe OD size of 100mm. The circumference will be 314mm (Pi 3.14 x Diameter 100mm)

Length of pipe needed to be repaired 1 meter –

So the m<sup>2</sup> area to be coated will be 1000mm (1 meter) x 314mm (circumference) = 314,000mm<sup>2</sup> OR 314cm<sup>2</sup> or 3.14m<sup>2</sup>

If the coverage of 1 x 225 gram Resin & Hardener unit is 0.35m<sup>2</sup> then you would need 9 UNITS / 225 grams. This is then for 1 (one) application on top the pipe.

If you are performing the normal pressure repair then will need 4 (four) applications of the resin & hardener. Would therefore need 36 x 225 gram units for a 1 meter long pipe repair @ 100mm pipe thickness.

## **Special Glass Tape**

Pipe OD size of 100mm. The circumference will be 314mm (Pi 3.14 x Diameter 100mm)

Length of pipe needed to be repaired 1 meter –

So the m2 area to be WRAPPED will be 1000mm (1 meter) x 314mm (circumference) = 314,000mm<sup>2</sup>  
OR 314cm<sup>2</sup> or 3.14m<sup>2</sup>

By using the 50mmx50m Special Glass Tape we need to take only 50% of the actual width –i.e.  
25mm wide (50% overlap)

So 1 roll of tape will cover 12.5m<sup>2</sup> (25mm x 50m)

So for an area of 3.14m<sup>2</sup> with 3 (three) wraps around we will ne 10 m<sup>2</sup> of Special Glass Tape.

## CONCLUSION:

To repair a 100mm diameter pipe with a leakage area of 1 meter length you would need 1 box of Resin & Hardener and 1 Roll Special Glass Tape 50mmx50m.

PLEASE NOTE that these figures are APPROXIMATE as is not an exact science!!

Figures will vary according to thickness applied.

It is ALWAYS better to OVER ESTIMATE than to UNDER ESTMATE as to run out of product whilst half way through an application is not recommended.

- ✓ For further information and help if required please contact [sales@uniquepolymersystems.com](mailto:sales@uniquepolymersystems.com)

**\*NOTE: If the repair is to a HIGH PRESSURE pipe (i.e. OVER 500 psi – 32 bar) the you will need to ADD to this calculation:**

2 (two) more applications of Resin & Hardener = 18 units of 225 grams PLUS 1 m<sup>2</sup> of GLASS MATT and 1m<sup>2</sup> of Linen Scrim.

**\*\*NOTE: We have NOT allowed in this example for the A&B Cement (or PlastSteel) if required to fill in the damaged area. However normally we will only require a 1 kilo unit of A&B cement or 1 STICK rapid Metal PlasSteel.**

For a COSMETIC purpose the whole repair can be covered with 1 m<sup>2</sup> of CELLOPHANE.

