



UPS 11000 'A' Kit Engineers A Kit contains a specially selected range of high performance laminate, adhesive and engineering repair products.

Product Features

- Ideal for emergency repairs to leaking pipework.
- Repairs with pressure tolerance up to 3000 psi.
- Contains 100% solids UPS 19000 Standard Resin & Hardener.
- Up to 20 repairs possible from one kit.
- Repairs to pumps and valves.
- Water activated pipe repair bandages (UPS 19601/3/4/5/6 PR).
- General purpose adhesive (UPS 19002 A&B Cement).
- Fast curing metal repair compounds (UPS 19605 RG).

UPS 11000 A Kit - Contents		
Product	Size	Quantity
UPS 19000 RH Standard Resin & Hardener	10 X225gms	2
UPS 19003 A&B Cement	1kg	1
UPS 120 XF Fast Curing Metal Fluid	25ml	2
UPS 19060 SG Stick Grade Metal	125gms	1
UPS 19060 SGUW Underwater Stick Grade Metal	125gms	1
UPS 19601 PR Pipe Repair Bandage	50mm X 1.7m	1
UPS 19020 Glass Mat	0.5m	2
UPS 19043 Sealer Filler	50gm	2
UPS 19042 Fairing Compound	50gm	1
UPS Masking Tape	Roll	1
UPS Plastic Coated Paper	2m ²	1
UPS 19007 GT Glass Tape	50mm X 50m	2
UPS 19052 Resin Removing Cream	100gm	1
UPS Cellophane	250mm X 25m	2
UPS 19030 Contour Cloth	250mm X 250mm	1
UPS 19031 Linen Scrim	0.5m ²	3
UPS 19010 Glass Cloth	1m ²	3
Disposable Gloves	Pair	10
Scissors	Pair	1
Brush	1" Width	3
Stirring Tool	-	10
Trowelling Tool	-	1
Detailed Application Booklet	-	1
Top Up Your UPS 11000 'A' Kit With The UPS 13000 'C' Kit		



UPS 19000 Standard Resin & Hardener

It will be found that the containers in which the Resin is packed are not filled to the top. This is to allow space for the introduction of the Activator. Sufficient activator is included in each container to set the resin in each pack and this should be poured into the Base container shortly before it is required for use and stirred for at least 1.5 minutes using one of the stirring tools.

UPS 19002 A&B Cement

Equal quantities of the cement are to be taken from either the containers, and mixed together using the spatula provided. When using *UPS 19002 A&B* for repairs to leaking pipe, it is advisable to allow the cement begin to harden, before applying it to the cracked pipe.

Effects of Temperature on UPS 19000 RH

Once the *UPS 19000 RH* has been mixed, the rate of cure is dependent on the temperature to which it is allowed to rise. The hardness, strength and rapidity is increased the higher the temperature. In cold conditions it is advisable where possible, to apply an external source of heat to a repair to make sure that the cure reaction is complete and so reach its maximum strength.

Cleaning The Surface

It must be appreciated that the strength of a repair depends chiefly upon the strength of the adhesive bond between the *UPS 19000 RH* and the surface to which it is applied. The *UPS 19000 RH* will adhere best to a clean, grease free surface and it is therefore essential that before applying a repair to a surface it should be cleaned using *UPS TAC 883*. In areas where it is impossible to clean the surface thoroughly, it is recommended that a layer of *UPS 19002 A&B* is smeared on the surface to be repaired and for a distance of 2" around.

Evenness of Lay Up

The principle strength of a repair lies in the tape or glass cloth layers, which are either wound or laid on the surface of the metal. When using tape it is customary to wind this with a half overlap and care should be taken to see that there are no kinks in the tape, as this will leave a path of weakness in the final repair, which the pressure from inside will attack and may cause a breakdown. It will sometimes be found to be difficult to keep the winding smooth and free from kinks, especially when the repair is over a bend section of a pipe. In these cases it is preferable to cut short lengths of tape and lap them one on the other, while winding over the bend.

Even Application of UPS 19000 RH

It is obviously necessary that a continuous line a resin must be applied to each layer of the tape wound around the repair.

Thorough Saturation of UPS 19020 Glass Mat

The purpose of *UPS 19020 Glass Mat* is to provide a rigid backing to the tape repair and also to enclose a considerable volume of *UPS 19000 R*, which will heat up during cure and thereby make the adhesion to the metal considerably stronger. This objective will never be attained unless the *UPS 19020 Glass Mat* is thoroughly saturated. This can be achieved by working the resin up

through the mat with the fingers. Particular attention should be paid to the edges of the mat strip.

UPS 19000 Stand Resin & Hardener

100% solids epoxy based resin, produces an extraordinarily strong resinous mass, having exceptional adhesive properties when applied to metals, wood, glass and synthetic materials.

UPS 19002 A&B Cement

A specially developed epoxide compound supplied in two separate packs Marked Base and Activator. When mixed together in equal portions by volume, the *UPS 19002 A&B* will cure to an extremely strong mass with a better adhesive bond that produced by *UPS 19000 RH*. Apart from its use an adhesive for repairs it can be applied, prior to carrying out a *UPS* repair where difficult adhesion conditions exist.

UPS 19010 Glass Cloth

A woven cloth 1m², 0.007" thick, which can be used for large repairs to tanks and pipework, specially developed for use with *UPS 19000 RH*.

UPS 19020 Glass Mat

A random collection of glass fibre which will absorb a considerable amount of *UPS 19000 RH* and which, when set will give an extremely strong inflexible mass for backing up repairs.

UPS 19031 Linen Scrim

An open woven linen fabric used as a backing to *UPS 19020 Glass Mat* to make it easier to handle when being applied to a repair.

UPS 19007/9 GT Glass Tape

UPS 19007/9 GT is a specially treated glass fibre fabric that ensures the resin mix will fully permeate the fabric and is used, from the roll, for wind on pipe repairs.

UPS 19042 Fairing Compound

Individual strands of glass fibre for mixing with *UPS 19000 RH* mix.

UPS 19043 Sealer Filler

Strands of fibrous silicate, which, when mixed with *UPS 19000 RH* becomes a putty, ideal for repairing cracked pipes.

Health & Safety

Please ensure good practice is observed at all times during the mixing and application of this product. Protective gloves must be worn during the mixing and application of this product. Before mixing and applying the material please ensure you have read the fully detailed Material Safety Data Sheet.

Legal Notice: The data contained within this Technical Data Sheet is furnished for information only and is believed to be reliable at the time of issue. We cannot assume responsibility for results obtained by others over whose methods we have no control. It is the responsibility of the customer to determine the products suitability for use. Unique Polymer Systems LTD accepts no liability arising out of the use of this information or the product described herein.

Unique Polymer Systems LTD
Unit 1 Bankside Industrial Estate
Little Marcle Road
Ledbury
Herefordshire
HR8 2DR
United Kingdom