

TECHNICAL DATA SHEET

UPS 11000 THISTLEBOND A KIT ENGINEERING KIT

IMPA 81 22 35



**UNIQUE POLYMER
SYSTEMS**

INNOVATE | REBUILD | ENHANCE

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

Product Information

Product Features

- Ideal for emergency repairs to leaking pipework.
- Repairs with pressure tolerance up to 1,600 psi.
- Contains 100% solids *UPS 19000 ThistleBond 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 PR – WRAS Approved for Potable Water Applications*).
- General purpose adhesive (*UPS 19003 ThistleBond A&B Cement*).
- Fast curing metal repair compounds (*UPS 120 XFF*).

UPS 19000 RH ThistleBond 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 Hardener. Sufficient hardener is included in each container to set the resin in each pack and this should be poured into the resin container shortly before it is required for use and stirred for at least 1.5 minutes using one of the stirring tools.

UPS 19003 ThistleBond A&B Cement

Equal quantities of the cement are to be taken from the sachets and mixed together using the spatula provided. When using UPS 19003 A&B Cement for repairs to a leaking pipe, it is advisable to allow the cement to begin to harden, before applying it to the cracked pipe.

Effects of temperature on UPS 19000 RH ThistleBond Standard Resin & Hardener

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 the repair to make sure that the cure reaction is complete and so the materials reaches its maximum strength.

Cleaning the Surface

It must be appreciated that the strength of a repair depends solely 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 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 9918 MEK Cleaner. In areas where it is impossible to clean the surface thoroughly, it is recommended that a layer of UPS 19003 A&B is smeared on the surface to be repaired and for a distance of 50mm 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 to weakness in the 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 ThistleBond Standard Resin & Hardener

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

Thorough Saturation of UPS 9911 Glass Mat

The purpose of the UPS 9911 Glass Mat is to provide a rigid backing to the tape repair and also to enclose a considerable volume of UPS 19000 RH ThistleBond Standard Resin & Hardener, 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 9911 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 RH ThistleBond Standard Resin & Hardener

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

UPS 19003 ThistleBond A&B Cement

A specially developed epoxide compound supplied in two packs marked Base & Activator. When mixed together in equal portions by volume the UPS 19003 ThistleBond A&B Cement will cure to an extremely strong mass with a better adhesive bond than that produced by UPS 19000 RH ThistleBond Standard Resin & hardener. Apart from its use as an adhesive for repairs it can be applied, prior to carrying out a UPS Composite Repair where difficult adhesion conditions exist.

UPS 9910 Glass Cloth

A woven cloth 1 meter squared, 0.007" thick, which can be used for large repairs to tanks and pipework, specially

TECHNICAL DATA SHEET

UPS 11000 THISTLEBOND A KIT ENGINEERING KIT

IMPA 81 22 35

developed for use with UPS 19000 RH ThistleBond Standard Resin & Hardener.

UPS 9911 Glass Mat

A random collection of glass fibres which will absorb a considerable amount of UPS 19000 RH ThistleBond Standard Resin & Hardener and which, when set, will give an extremely strong inflexible mass for backing up repairs.

UPS Linen Scrim

An open woven linen fabric used as a backing to the UPS 9911 Glass Mat to make it easier handle when being applied to a repair.

UPS 19007/9 ThistleBond Glass Tape

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

UPS 9912 Fairing Compound

Individual. Strands of glass fibre ideal for mixing with UPS 19000 RH ThistleBond Stand Resin & Hardener.

UPS 9913 Sealer Filler

Strand of fibrous silicate, which, when mixed with the UPS 19000 ThistleBond Standard Resin & Hardener becomes a putty ideal for repair cracked pipes.

For full technical information on each component within the UPS 11000 ThistleBond A Kit please refer to the individual Technical Data Sheets.

Official Approvals



The products that we supply are for professional use only, it is your responsibility to read the technical data sheets before you place an order and prior to application of the product.

Quality: All Unique Polymer Systems Products are supplied under the scopes of the company's fully documented quality system.

Warranty: Unique Polymer Systems warrants that the performance of the product supplied will confirm to the typical descriptions quoted within this Technical Data Sheet provided the material is stored correctly and used according to the procedures detailed in the Technical Data Sheet for the material.

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 accepts no liability arising out of the use of this information or the product described herein.



**USED ALL OVER
THE WORLD**

UPS 11000 ThistleBond A Kit - Contents

Product	Size	Quantity
UPS 19000 RH Standard Resin & Hardener	225gms	20
UPS 19003 A&B Cement	1kg	1
UPS 120 XFF Fast Curing Metal Fluid	200gm	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 1.8m	1
Glass Mat	0.5m	2
Sealer Filler	50gm	2
Fairing Compound	50gm	1
Masking Tape	Roll	1
Polyurethane Sheet	2m ²	1
UPS 19007 GT Glass Tape	50mm X 50m	2
Resin Removing Cream	100gm	1
Cellophane	250mm X 25m	2
Green Contour Cloth	250mm X 250mm	1
Linen Scrim	0.5m ²	3
Glass Cloth	1m ²	3
Disposable Gloves	Pair	10
Scissors	Pair	1
Brush	1" Width	3
Stirring Tool	-	10
Metal Applicator Tool	-	1
UPS 9916 Plastic	-	10
Spatula	-	1
Detailed Application Booklet	-	1

Top up your UPS 11000 ThistleBond A Kit with the UPS 13000 ThistleBond C Kit