



UPS 19601

Data Sheet and Application Guide

Product Description

UPS 19601 is a special fast curing moisture activated repair bandage for repairs to leaking pipes.

Product Features

Easy to apply, requiring no special tools or equipment.

Specially selected woven polyester fabric impregnated with a polyurethane resin which is activated by immersion in water.

- Ideal for repairing pipes operating at low pressures.
- Designed for use for repairs to pipes up to 65mm diameter.
- Can be used on a wide variety of surfaces, including all metals and many types of plastic.
- Meets the requirements of BS6920 for contact with drinking water.

General Application Steps

1. Remove oil, grease and loosely adhering deposits.
2. Abrade by appropriate means to create a coarse profile.
3. Apply UPS 19601 to the required thickness.
4. Allow to cure.

Properties

Property	Value
Colour	Cream
Ratio	N/A, Supplied ready for use

Drying & Cure times at 20°C (68°F)

Useable life	2 – 3 mins
Initial Set	5 mins
Full Mechanical Cure	30 mins
Volume Solids	100%

Performance Data

Flexural Strength	32Mpa (4640 psi) (ASTM D790)
Tensile Strength	19Mpa (2740 psi) (ASTM D6382)
Maximum Heat Resistance	270°C (500°F)
Maximum Service Pressure	10 bar (150 psi) - ½ inch/12mm thick repair 27.5 bar (400 psi) – 1 inch/25mm thick repair
Shore D Hardness	82 (ASTM D2240)
Adhesion (Bond Strength)	14Mpa (2000 psi)



Application Procedures for UPS 19601

All pressure should be removed from the pipe. For leaks where pressure cannot be removed, holes should be stopped using a pipe repair clamp. Remove all oil, grease, loose rust scale, sealant tape and paint from the repair area. Rough score a 10cm (4 inch) patch around the pipe centring on the leak site.

If the pipe is pitted with rust, surfaces must be wire brushed to remove the loose scale. If the surface is smooth, as with copper or stainless steel, surfaces should be roughened with a coarse file, rasp or saw blade. For plastic pipe, the external mould release must be removed. Abrade surfaces with a coarse grit sandpaper. A saw blade may also be used to create a cross hatch pattern. This is particularly useful on polypropylene and PVDF piping.

Application Procedures

Before and during application, lightweight disposable gloves should be worn to protect the hands.

UPS 19601 is a single component material, which should be immersed in water and squeezed two or three times for about five seconds prior to use.

Remove roll from water and wrap quickly and tightly as follows.

Centre tape over leak site, wrap from bottom of roll, pulling firmly throughout application. After 5-7 piles, resin foam will come through the tape, which is desirable and aided by pulling tightly. Continue until entire roll is applied, building to a minimum thickness of ½ inch (12mm), use a second

roll is necessary. Firmly press and smooth end of roll into wrap in the direction of application. Wet gloves in water, smooth and firmly press the wet resin back into the wrap.

When used in conjunction with a plug of UPS 19060 repeat the above instructions but having first plugged the hole. Knead a small bead of putty in a gloved hand and flatten out into a disc centrally over the hold pressing gently and feathering out the edges. Leave to semi-harden (full cure 30 minutes) before applying the tape, although the tape may be applied immediately if necessary.

KEEP HANDS MOVING QUICKLY AND WET GLOVES FREQUENTLY TO AVOID STICKING

Continue rapid hand movement pressing and polishing resin in motions around and parallel to the pipe. Continue process until resins are no longer tacky. The repair should now have a smooth, hard surface and an enamel-like appearance with no fabric protruding through the surface.

NOTE: If a thick application is needed, spend a little less time finishing the first roll and immediately begin the application of the next, finish the final roll as if a single roll application.



Packing and Storage

Supplied as a rolled bandage in an airtight sachet. Bandage dimension approximately

UPS 19601	50mm X 1.5m
UPS 19603	50mm X 3.6m
UPS 19604	75mm X 3.6m
UPS 19605	100mm X 3.6m

Use within 12 months of date of manufacture,. Store in original sealed containers at temperatures between 5°C and 32°C.

Handling and Safety Precautions

Read all health hazard, precautionary and first aid statement found in the Material Safety Data Sheet, and/or product label prior to handling or use.

Ordering Information/Customer Service

For ordering, technical and product information or to request a copy of the Material Safety Data Sheet, call +44(0) 1382 731 073 or sales@protectivesupplies.com

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