ProTXcoat

Technology at work for you

ProTXcoat 200PRT

Single Component Polyurethane Pipe Repair Bandage

200PRT is a high performance rapid curing moisture activated repair bandage, specifically developed for the repair of leaking pipes.

200PRT is based on a specially selected woven polyester fabric impregnated with a polyurethane resin, which is activated by immersion in water. **200PRT** is ideal for pipe repairs to low pressure systems. As a general guide a repair built up to a thickness of approximately 12mm (½ inch) will withstand a maximum service pressure of 10 bar (150psi).

High pressures repairs, up to 50 bar can be achieved by first applying a 'plug' of **ProTXcoat Stick** over the leak.

Pipes up to a nominal diameter of 65mm may be repaired using **200PRT** with holes approximately 3-6mm diameter, although slightly larger pipes and holes can be effectively repaired using a plug of putty as described herein, always at users discretion.

SURFACE PREPARATION

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 10 cm (4 inch) patch around the pipe centering 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

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

200PRT 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 plies, 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 (12 mm), use a second roll if 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 **ProTXcoat Stick**, 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 hole 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 WE T 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 thicker 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.

Detailed working recommendations are available from the Technical Centre on request

Mixing Ratio	Supplied ready for use.	
Appearance	Resin impregnated bandage.	
Drying & Cure Times at 20°C (68°F)	Usable Life	2-3 minutes
	Initial Set	5 minutes
	Full Mechanical Strength	30 minutes
Volume Solids	100%	
V.O.C.	Nil	
Volume Solids	100%	
V.O.C.	Nil	
Shelf Life	Use within 1 year of purchase. Store in original sealed containers at temperatures between 5°C (40°F) and 30°C (86°F).	

Temperature Resistance

Dry Heat **270°C**

Wet immersion **270°C**

PHYSICAL PROPERTIES

Flexural Strength ASTMD790	32 N/mm^2 (4640 psi)
Tensile Strength ASTMD6382	19 N/mm^2 (2755 psi)
Hardness (Shore D) ASTMD2240	82
Adhesion (Bond Strength)	14 N/mm^2 (2000 psi)
Maximum Heat Resistance	270°C (500°F)
Maximum Service Pressure	
(½ inch/12 mm thick repair)	10 bar (150 psi)
(1 inch/25 mm thick repair)	27.5 bar (400 psi)

HEALTH & SAFETY

As long as normal good practice is observed **200PRT** can be safely used.

Protective gloves should be worn during use.

A fully detailed **Safety Data Sheet** is either included with the material or is available on request.

PACKAGING

Supplied in 50mm x 1.8mtr, 50mm x 3.6mtr, 75mm x 3.6mtr, 100mm x 3.6mtr.

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