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Method of Application of a ThistleBond, Low Pressure Pipe Repair.

Ensure you read all of the instructions before proceeding with the repair. Have all items to hand and wear the appropriate safety clothing.

This repair method represents the standard approach which should be adopted when repairing a damaged section of pipe. We have tested this type of repair and achieved pressures in excess of 500 psi before failure. The following is the sequence of steps to be taken in the repair procedure:



1. Unpack the ThistleBond A or C Kit and take out ThistleBond TRK1900 Standard Resin and Hardener and all the required mats and tape



2. If the contours of the surface to which the repair is to be applied are irregular or cracked, then apply ThistleBond A&B Cement or TRK19065 Rapid Setting Super Metal Repair Paste as appropriate, see application instructions in sections

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3. If the repair is to bridge a hole in a pipe, then a piece of contour cloth of a suitable size should be prepared to retain the original contour.

4. Mix sufficient ThistleBond A&B Cement to coat the area to which the Contour Cloth is to be applied. Once coated the Contour Cloth should be positioned over the hole.



5. Mask off the section of pipe you wish to repair. Mix the tins of Resin and Hardener together, using the Wooden Stirring tools provided. Ensure that both parts are thoroughly mixed. NOTE-usable life once mixed is 25mins at 20C



6. Thoroughly coat the surface of the repair area with the ThistleBond Standard Resin and Hardener mix.



7. When Glass Tape is being used for the repair this should be wound round the pipe directly from the roll. The tape should be wound reasonably tight onto the Resin Mix coated surface of the repair to ensure the mix permeates through the interstices of the tape. The tape should be wound to overlap by half its width.

NOTE- Do not cut the tape at the end of each pass.



8. After each pass of the Glass Tape, a layer of ThistleBond Resin mix must be brush onto the surface. When the Glass Tape is used the winding of the second and third layers should each be in the reverse direction to that of the previous layer.



9. After the Glass Tape has been wound around the pipe work and the twice and third layer of Resin mix has been brushed onto the repair, cut a piece of Glass Cloth to a size that extends over 2" over the wraps of Glass Tape. Wrap the Glass Cloth over the pipe work



Cut a piece of Cellophane a little larger than the length of the repair and at least 100mm longer than the circumference. This is applied to the surface of the repair and should be retained in place by means of masking tape at each end of the repair.

The repair is now complete and the resin mix must be left to cure before returning the repaired item to service. Curing Times generally depend on ambient temperature. For a guide, in excess of 50% strength is developed in approximately 4 hours at 20C. Full cure is achieved under these conditions in approximately 24 hours from time of application.