

SealXpert Products

Leak Repair Application Note 2

Pipe Material: Carbon Steel Pipe SCH40
Pipe Medium: Natural Gas
Pipe Size: 10"
Pipe Pressure: 150 psig
Temperature: 30°C
Leak Location: Straight and Tee-junction

The Natural Gas of a glass-manufacturing factory has been plagued with severe corrosion and several locations along the pipe section had major leaks. Only cold repair is allowed on the pipeline as any hot works will be dangerous under such situations.

The challenge in this project is that the integrity of the pipeline had been compromised and there were many pinholes around the leak location. Furthermore the pipe wall thickness has been reduced drastically due to severe corrosion and pitting. It is necessary to seal all these pinholes in order to stop the existing leaks and reinforce the pipe wall to strengthen the pipe.

Seal Stic™ steel epoxy was first applied onto the pipe to seal off major pipe leak locations. Thereafter Wrap Seal PLUS™ standard resin and activator is applied onto the pipe surface to stop corrosion and seal off pinhole leaks. Wrap Seal™ fiberglass tape was then applied onto the pipe surface to reinforce the repaired location.

Application Photographs



Severe corrosion and leaks on pipe surface



Severe corrosion and leaks on pipe elbow



Applying pipe wrap Seal PLUSresin & activator



Applying Wrap Seal™ fiberglass tapes

Note: Appropriate Personnel Protective Equipment shall be used for repair on Natural Gas pipes. Material Safety Datasheet and safety procedure must be strictly adhered to during the repair works.

