



## Nu Flow - Nu Drain Frequently Asked Questions

## 1. What is Nu Drain?

Nu Drain is a lining technology used to rehabilitate sections of pipework such as drains by pulling in a 'Cured In Place' liner saturated in epoxy resin.

The liner is felt based and formed over an inflatable bladder which is saturated in epoxy resin, pulled inside the existing host pipe and inflated. Once in place and after the epoxy has cured, the bladder is deflated and removed leaving a new pipe within an old pipe forming a structural barrier with ring strength.

## 2. What are the Advantages of Nu Drain?

Nu Drain's unique status comes from its ability to be installed in; Small diameter pipework – from 32mm, through several bends (45°, 90° or other angles) totalling 180° and through one entry point if an exit point is unavailable.

## 3. Where can Nu Drain be used?

The technology can be applied in any section of drain, sewer, rain water or utility pipework in either a vertical, horizontal or a mix of both orientations. The liners can be installed within any type of host pipe. For example; metals, plastics, ceramics, and organics

## 4. What sized pipes can Nu Drain be used for?

Nu Drain can be used on pipework with diameters between 32mm & 300mm. Lengths of pipe that can be lined at once vary depending on diameter with typically, a length of approx. 45m is able to be done at once for a 100mm diameter host pipe.

## 5. How does Nu Drain manage bends and connections or branches?

Since Nu Drain is designed with a flexible and contouring rubber bladder in it. Once installed, the bladder within the liner is inflated pushing the epoxy saturated felt around the contours of the host pipe.

## 6. Are there temperature limits for water in a pipe lined with Nu Drain?

Nu Drain can be applied with a choice of two epoxy resins depending on the temperature of the liquid passing through the host pipe.

Generally, an epoxy resin with a temperature ceiling of 63°C is used within pipework being used for applications within sewers, rainwater and drain pipes.

A high temperature resin with a temperature ceiling of 93°C can also be used with Nu Drain allowing its use within other sections of pipework where the operating temperature of the liquid is greater than normal.

## 7. How long does the lining process take?

Typically, the lining process takes between 2 – 8 hours dependant on the section of pipe being lined.

## 8. How soon can the section of pipe be returned to service after lining?

Once the bladder is removed, the cured liner is inspected as part of quality assurance. The section of pipe can be brought back into service within 10 minutes of successfully completing this.

## 9. How is the liner installed?

The Nu Drain felt liner is prepared adjacent to the repair location. A cable is pulled between the two points of access for the section being replaced which the liner is then attached too and pulled into situ. Once it is in its final location, the bladder within the liner is inflated and left to cure. Once cured, the bladder is removed and inspected for any imperfections using a camera. Immediately after it is deemed satisfactory through the camera inspection the section of pipework can be commissioned and put returned to service.

## 10. What if the drain pipe is cracked, broken or penetrated by tree roots?

Nu Drain can compensate for up to 30% deviation in diameter or alignment of the existing host pipe should it be affected by either collapse, degradation or cracking.

In the case of protrusion or debris in the pipes, the host pipe needs to be thoroughly cleaned initially and any debris removed before lining can commence.

## 11. How is pricing to customers conveyed? By unit? By fixture?

Pricing can be proposed by price per unit in the case of above ground situations such as apartments and condominiums. For larger projects involving underground pipework non-residential structures (schools, commercial office building, etc), pricing should normally be presented on a lump-sum basis.

## 12. What quality assurance procedures are used in the Nu Flow process to ensure a satisfactory restoration?

Through the process, compliance to key steps are recorded using a web-based application. On completion, a visual inspection using a camera/borescope is undertaken immediately following curing.

## 13. What other techniques do Nu Flow offer?

Nu Flow also offers a technological process called Nu Line for lining potable water systems and many other fluids and gases. This process creates an epoxy resin barrier coating within existing pipe systems that prevents any further internal degradation of the host pipe through interaction with the medium flowing through it.