

Pipe Doctor Patch Repair – Life Expectancy of 50 years

The Pipe Doctor Patch Repair system has undergone testing by independent testing organisation Exova of Salford, UK. The results of the tests reveal a life expectancy for Pipe Doctor patch repairs of 50 years.

The samples tested by Exova were created and installed following the manufacturer’s standard installation instructions, as described within the WRc-approved Pipe Doctor Patch Repair Training Course. The life expectancy of patch repairs installed differently cannot be inferred.

The sample received by Exova was tested in accordance with UKAS accredited standard procedures SOP9 and SOP20. These tests included:

- Long-term flexural testing conducted for 1 000 hours on 1 specimen in accordance with ISO899-2.
- Long-term flexural testing extended to 10 000 hours on five specimens, with interim report after 1000 hours.
- Modulus at 50 years calculated by extrapolating data from greater than 100 hours and checked for compliance with ISO 11296-4, WIS 4-34-04 and the United Utilities specification.

The predicted 50-year Modulus obtained from each of the tests is 2606, 2586, 2251, 2082 and 1496 MPa, giving an average value of 2204 MPa. At this stage, the results are in full compliance with the predicted 50-year modulus requirement given within ISO 11296-4, WIS 4-34-04 and the United Utilities CIP lining specification.

**Wet-Creep Testing of 300mm Diameter Patch Repair
Type S Resin, Waterglass, Single Layer of 1050g/m² Glass Matting
Results From Data Points Up To 8000 Hours**

