

1. SCOPE

This schedule specifies requirements for the RSM Pipe Aid cured-in-place patch repair system as supplied by RSM. It is applicable to renovation of straight sections of gravity drains and sewers with nominal diameters of 75mm, 100mm, 150mm or 225mm up to 5m deep.

It is applicable to repairs of lengths of 500mm and 1,000mm in kit form and up to 1,200mm in bulk.

2. PRODUCT DESCRIPTION

2.1 Introduction

The RSM Pipe Aid patch repair system is an ambient-cure cured-in-place localised repair system which comprises a two-part silicate thermosetting resin and a glass fibre mat. The system is supplied with either a summer (s) or winter (w) resin depending on the season. The system is supplied either in kit or bulk form.

The repair kit for a specified pipe diameter comprises a pre-cut mat either 550mm or 1,000mm in length, with factory measured volumes of the resin components in a twin compartment bag for the size of mat, and ancillary disposable items for installation.

In bulk form the mat is supplied to the required length and the installer is responsible for calculating the required volumes of each of the resin components for the size of mat.

The resin components are mixed and then combined with the mat on site by the installer in accordance with the installation instructions. The wetted mat is placed around an inflatable packer. The packer is positioned inside the pipe at the defect, the packer is then inflated compressing the mat against the host pipe. The patch repair

is then allowed to cure. On completion of the curing process, the packer is deflated and removed, the patch is then inspected.

2.2 Applicable standards

The following relevant standard was identified for the Pipe Aid patch repair system:

- WRc Drain Repair Book 4th edition⁽¹⁾.

2.3 Approval History

The RSM Pipe Aid Patch Repair System was originally awarded WRc Approved[®] certification in December 2015:

- PT/370/1215.
- PT/483/1220.

This is the second re-approval of RSM Pipe Aid Patch Repair System.

3. REQUIREMENTS AND TESTING

3.1 Type Testing

The Pipe Aid system shall comply with the following test requirements:

When tested in accordance BS EN ISO 11296-4⁽²⁾ the repair shall achieve the manufacturers declared values for the characteristics listed in Table 1.

Table 1 – Material Characteristics

Characteristics	Declared Value
Short-term flexural modulus	7,000 MPa
Short-term stress at first break	128 MPa
Strain at first break	2.23%

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External long-term pressure resistance:
When tested in accordance with Appendix F of The Drain Repair Book the Pipe Aid system shall meet the infiltration requirements of CESWI 8th⁽³⁾ edition clause 7.8.2.

Serviceability:

When a section of patch repair is tested in accordance with Appendix B of WIS4-35 01:2008⁽⁴⁾, the repair shall meet the resistance to water jetting requirements of clause 3.3 of that specification.

The interface between the patch repair and the host pipe at one end of the cured repair is tested in accordance with the methodology of Appendix B of WIS 4-35-01:2008 at a pressure of 180 bar, there shall be no visible de-bonding of the patch repair from the host pipe.

The repair and the adjacent unrepaired pipe sections shall be continuous in accordance with BS EN 476:2022 Clause 6.5⁽⁵⁾.

3.2 Manufacture

To ensure the quality and performance of the RSM Pipe Aid Patch Repair System, the manufacturing process shall include appropriate systems for the:

- Specification of component materials;
- Verification component materials received are to specification;
- Handling and storage of all component materials and finished units;
- Detailed drawing / schedule for manufacture;
- Manufacture / assembly of RSM Pipe Aid Patch Repair System, and;
- Fabrication and quality control of workmanship.

The production of the RSM Pipe Aid Patch Repair System and related quality control procedures shall comply with requirements to ensure the stated performance of the product is reliably achieved.

3.3 Installation

When installed in accordance with the installation documentation⁽⁶⁾, the RSM Pipe Aid Patch Repair System shall be reasonably expected to perform as described.

4. APPROVAL

The RSM Pipe Aid Patch Repair System has been audited and successfully met all the requirements stated within this assessment schedule.

Signed:

A handwritten signature in black ink, appearing to be 'G.L.' followed by a horizontal line.

Valid until 4th December 2030.

5. REFERENCES

1. Drain Repair Book 4th edition (WRc, 2017).
2. BS EN ISO 11296 - 4:2018+A1-2021: Plastics piping systems for renovation of underground non-pressure drainage and sewerage networks. Lining with cured-in-place pipes.
3. CESWI 8th edition, 2023.

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4. WIS 4-35-01:2008 Specification for Thermoplastics Structured Wall Pipes – Supplementary Test Requirements.
5. BS EN 476:2022: General requirements for components used in drains and sewers.
6. PIPE AID #PATCHKIT STRAIGHT PIPE REPAIR Instruction Manual, PASTrMan01/2015.