

APPLIED TRENCHLESS TECHNOLOGIES

Seminars, workshops & training

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Kuala Lumpur

7th & 8th May, 2018

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RSM Lining Supplies
CHOICE AND TECHNOLOGY



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RSM Lining Supplies – Choice, Technology and Development in the CIPP rehabilitation sector.

Tom Waddoups

General Manager



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Content Outline

1. Company Overview and Position in Market
2. Available Technology
3. Application Areas
4. Quality and What RSM can offer you.
5. Technology Developments
6. What we can do for your business.



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RSM – A Company Overview

- Specialists in the Pipe Rehabilitation Sector – using Trenchless Methods
- Formed in 2003 by our current Managing Director, Richard Davis, Ethos to find the most effective and efficient rehabilitation solutions for contractors involved in sewer renovation.
- UK's Leading rehabilitation specialist supplier for CIPP materials and equipment.
- Depots in Australasia, Ireland, South Africa, and shipping to over 30 countries worldwide with a current turnover of approx £12,000,000.
- Suppliers of all CIPP related technologies.



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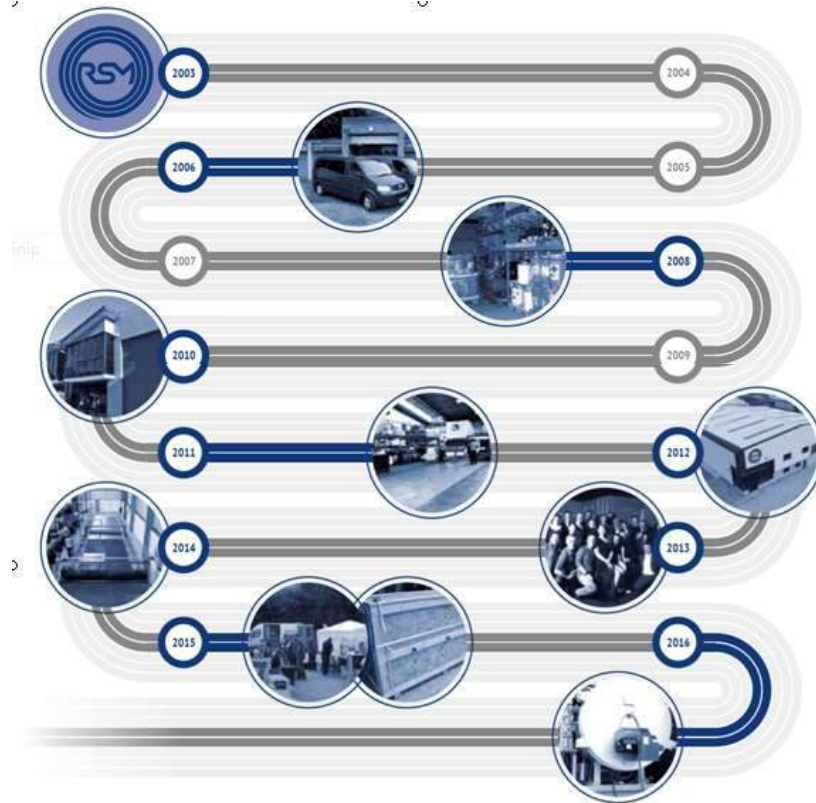


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RSM – Company History.



| | | | |
|---|---|---|---|
| <p>2003 Business founded. Small beginnings</p> | <p>2010 Australasian head offices opened in Sydney.</p> | <p>2012 Moved into purpose built head office, allowing increased stock holding, expansion of our distribution network and accommodation of larger impregnation facility.</p> | <p>2014 Increased impregnation capacity to 2000mm (80in) diameter</p> |
| <p>2006 Moved into a 2,000 sq. ft unit. 4 vans, 4 people.</p> | <p>2011 Moved into 5,000 sq. ft factory. Accommodating a larger wet out area and office space.</p> | <p>2013 Team continues to grow as business expands.</p> | <p>2015 Inaugural Bi-Annual RSM trade Show. 500+ Attendees and 20 exhibitors. First international stocklist of UV Liner in the UK.</p> |
| <p>2008 Extended unit to 3,000 sq. ft. Business seeing good progression with more staff and great suppliers.</p> | | | <p>2016 Introduction of Steam Curing.</p> |



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The CIPP Process – A brief history.

- Invented in 1970s and commercialized as Insituform.
- Original Form – Needle Punch Felt Sock and Thermosetting Polyester Resin.
- First UV Cured CIPP Liner – 1985
- Original ‘Instuform’ product available to the mass market from 1994 onwards.
- Approx 50,000KM installed worldwide for Gravity Sewers
- New Developments – Focus on Pressure Applications and UV/LED curing technologies.



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Available Technologies :- Full Length Lining.

Technology for DN25 to DN2000

- Installation Methods

- Drag In Lining
- Inversion Lining

- Curing Methods

- Ambient Cure
- Heat Assisted
- Hot/ Steam Cure
- UV Cure



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Available Technologies :- Part Lining.

- Cured in Place Point Repair
- Led Cure Point Repair
- Pull In Place Lining
- Remote Start CIPP Lining
- Top Hat Repairs.





Available Technologies – Resin Systems

- Polyester – Widely used in UV and Hot Cure Applications
- Epoxy – Widely used in small diameter and pressure pipe applications
- Vinylester – Widely used in Chemical Resistance Applications





Application Possibilities

- **Municipal Sewer Repair**
- **Pressurised Sewer Mains**
- **Cable Ducts**
- **Fuel and Chemical Supply Lines**
- **Storm Water Drainage**
- **Large Diameter Culverted Watercourses.**
- **Clean Water Pipelines**
- **Gas Pipelines.**





Quality in Trenchless Installations

- Historically – Poor Quality Management – Ambient and Hot Cure Polyester Installations
- First WIS Specification Introduced to bring in Minimum Quality Standards – 1995
- Current Lining Standards ASTM F1216 and ISO11296/4
- Growth of understanding and clarity – IKT Liner Report, Total Quality Management in UV Systems.
- National Approval Bodies – WRC and DIBT.



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RSM – What do we offer?

- Access to all Cured In Place technologies for sewer renovation under one umbrella.
- Full technical service and support on and off site. Specification to Installation.
- Constant Innovation and the latest technology.
- Large Range of Proven WRC and DIBT Approved products.

WRC
APPROVED

BSI
British Standards



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RSM – What do we offer – Systems

- Full Length Lining – Drag and Inversion Felt Lining, full range of Install Equipment and Materials.
- Full Range of Polyester, Vinylester and Specialist Epoxy Products
- Range of Specialist Flexliners for Internal use to suit all applications



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RSM – What do we offer – Systems

- Extensive Range of Curing Methods and Equipment including for UV and Steam Cure.



- Unrivalled product range of ancillary parts to complete all manner of CIPP Projects inclusive of reinstatement tools.



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RSM – What do we offer – Point Repair Systems

- WRC Approved point repair system in bulk and box format.
- Full range of equipment and accessories.
- Excellent chemical resistant repair and 50 year design life.
- Innovation in LED Curing for Point Repair.
- Latest and Fastest Technology with approvals to match.



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RSM – What do we offer - Training/ Support Consultancy.

- Full specification and design service from conception to installation.
- Hands on certificated training for all aspects of CIPP
- Off Site Sales and Technical Project support for clients.



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RSM – Choice and Innovation.

- Proven Track Record for Innovation
- In House Product Development and Manufacturing Team
- Regular Sampling and Testing programme
- Development focused around latest Industry trends focused on improving choice and technology to the people we serve.



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RSM – Our Latest Developments – LED Technology for Point Repair.

- Compact repair system for Point Repair up to DN 375mm using LED Technology.
- Affordable for all Contractors
- Short Pay Back Time
- Excellent Cure Times – 6 Minutes per Patch
- Compact Kit Format – Contains all you need to undertake a repair in one box.
- Flexible Packers suitable to line around 45 degree bends.
- Excellent Strength Characteristics and Chemical Resistance of the cured repair.



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RSM – Our Latest Developments – LED Technology for Point Repair.

- Mechanical and Chemical Bond utilising revolutionary resin technology.
- Suitable for all types of Pipe Repair.
- Remote Repairs up to 100m from Access Points.
- LED Bulbs last in excess of 3 years before replacement is required.
- DIBT Approved System – 10,000 Hour Testing Completed.



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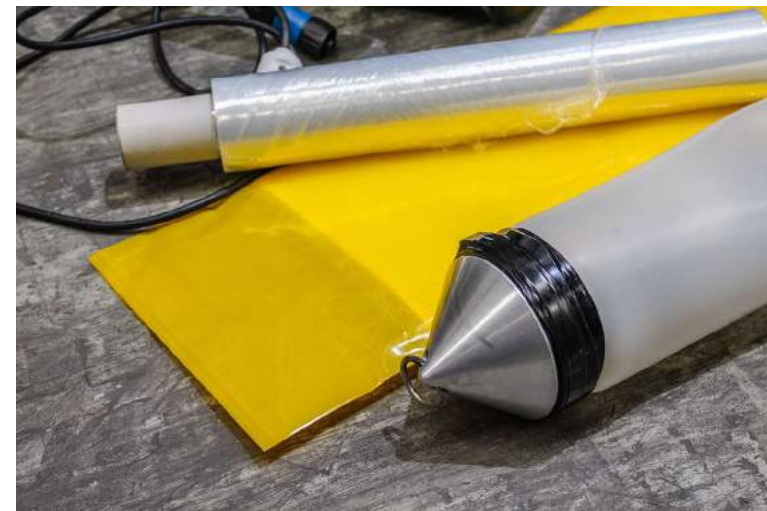
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LED Technology for Point Repair.

- For More information on our system, please visit us on the JBP Stand.



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Thank You for Your Attention!

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