

GRP Wall Linings

The Project

Strandek were requested to provide a waterproof and durable lining for the walls of an industrial process wash-down room. The aim was to protect the underlying concrete from:

- **Microbial contamination:** the room is dark and frequently damp, so a coating that minimises microbial growth and promotes easy cleaning was desired.
- **Impact:** occasional impact, perhaps from employees and equipment
- **Waterproofing:** the ability to withstand power-washing spray and prolonged dampness
- **Chemical and stain resistance:** detergents, possible oil from and dirt

Benefits of a GRP Wall Lining:

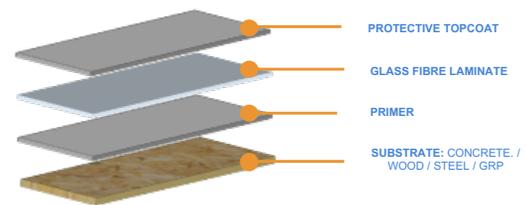
- Exception strength-to-weight ratios
- Waterproof
- Chemically resistant
- Impact resistance: exceptional shock-absorption dissipates impact
- Responsive to structural movement
- Exceptional adhesion to substrate
- **Optional fire resistance:** B.S. 476 Part 7 Classes 1 & 2 and phenolic
- **Colours:** RAL and B.S. colour ranges

The Solution

Strandek® recommended a GRP (glass reinforced plastic/polyester) lining. Also referred to as glass fibre and fibreglass, it is a composite material built from glass mat and polyester resin.

This is a hugely versatile – and durable – system that can be hand-applied to almost any substrate, creating a seamless, impermeable barrier.

The glass fibre laminate was then applied, prior to the application of a resin-based topcoat. The topcoat provided a smooth, washable surface.



GRP Lining	Glass re-inforced plastic/polyester (also known as glass fibre or fibreglass linings)
Ingredients	Unsaturated polyester resin combined with glass mat
Thickness	3 – 5 mm
Cure time	24 hours. Operational: 48 hours
Chemical resistance ¹	High – the Strandek® GRP Lining is resistance to a variety of chemicals.
Hygienic coating	Yes – non-porous and smooth. Able to repel xxx by creating a low
Waterproof	Demonstrates exceptional long-term (multi-decade) waterproofing
Impact resistance	Able to withstand low-to-moderate impact

¹ Performance data can be supplied for bespoke chemicals. Laboratory-based testing is also available.

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The Customer

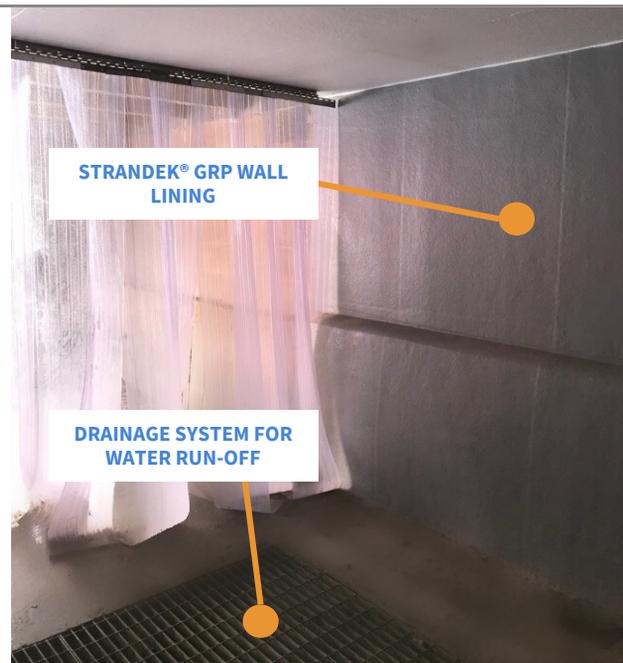
The customer are leaders in industrial and domestic vacuum technology.
Location: Chard, England

The Results

Once installed, the Strandek® GRP Lining is able to protect the walls and was ready for use within 24 hours.

The seamless, impervious barrier created by the Strandek® GRP lining offers exceptional protection of the underlying substrate.

This means that Numatic's walls can hold up to aggressive power washing, frequent low-moderate impact and chemical components – making the wash-down room fit for purpose.



Performance

The robustness of the Strandek® GRP lining system means that Numatic's walls can hold up to aggressive power washing, impact.

Steve Bowen®, Managing Director, Strandek GRP Systems

About Strandek

Established in 1976, Strandek specialise in a range of liquid-applied coatings. Working with a range of customers, they offer exceptional performance and a high-quality of workmanship.

Our Accreditations



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Contact us

www.strandek.co.uk/contact/

Telephone: 01633 250652

Email: steve.bowen@strandek.co.uk

Contact Us

Address

Strandek GRP Systems
Croes-Carn-Einon
Rhiwderin
Newport
South Wales
NP10 8RR

Telephone

01633 250652

Online

www.strandek.co.uk

Email

steve.bowen@strandek.co.uk
paul.chapman@strandek.co.uk
info@strandek.co.uk

