



Anti Bacterial Coatings

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Case Study

Refurbishment of the TYN Y WERN sports facilities

LOCATION: GLAMORGAN
PRODUCTS USED: JOHNSTONE'S MICROBARR ACRYLIC EGGSHELL

Following an extensive redecoration programme, the sports facilities at the University of Glamorgan are helping staff and students stay healthy in more ways than one thanks to the use of Microbarr Anti Bacterial Coatings.

Specified in an Acrylic Eggshell finish for application in both the changing room facilities and First Aid room at the University's Tyn-y-Wern Playing Fields, Johnstone's Microbarr has been formulated to help prevent the spread of harmful bacteria that leads to infection.



Keith Russell from the University of Glamorgan's Estates & Facilities department commented;

"The facilities at Tyn-y-Wern Playing Fields are extremely popular and as the changing rooms are in frequent use by both University members and the wider community, hygiene standards are of the utmost importance. By opting for a specialist coating such as Johnstone's Microbarr we have enjoyed the best of both worlds – decoration and protection. We are delighted with the finished results and with the reassurance that the use of an anti bacterial paint has given us".

The Microbarr coatings have been subjected to stringent Japanese industry tests (JIS Z 2801) with the results showing that 99% of bacteria was eradicated within 18 hours where Microbarr was used on the surfaces.



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Microbarr Anti Bacterial Coatings



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Technical Support
For further information, advice or a specification, please contact technical advisory on **01924 354100**

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PPG Architectural Coatings EMEA
Region UK and Ireland
Huddersfield Road, Birstall, Batley, West Yorkshire, WF17 9XA
Telephone: 01924 354000 Facsimile: 01924 354001

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Excellence in paint since 1890



Anti Bacterial Coatings

PERFORMANCE COATINGS

Johnstone's has been providing excellence in paint since 1890 offering a complete range of professional finishes including interior, exterior, performance coatings and woodcare products.

Johnstone's Hygiene Coatings offer you high performance products for a wide variety of applications where hygiene is essential. Within this range is Johnstone's Microbarr Anti Bacterial Coatings formulated for use in all areas where hygiene protection is required.

Using proven silver ion technology Johnstone's Anti Bacterial Acrylic Eggshell, Acrylic Matt and Aqua Gloss actively inhibit bacteria and provide a tough, washable surface, ideal for areas subject to frequent cleaning.

How does it work?

The key ingredient in Johnstone's Microbarr is silver. Whilst many anti-bacterial wall coverings use chemicals to prevent bacterial growth, Microbarr uses silver ions which form part of the film and prevent bacteria from multiplying.

One of the issues with chemical based solutions is that as the paint is continually wiped down, the chemical content is gradually removed – reducing its effectiveness. The silver in Microbarr cannot be removed by wiping or washing.

The silver ions present within the coating attack bacteria in three different ways to cause the reproductive functions within the bacteria to break down, thus preventing bacterial growth. Research has shown that silver ions are bactericidal against nearly 150 strains of bacteria. Also, as the silver has three modes of action rather than one, it is extremely unlikely that micro-organisms could develop resistance to it.



Technical Support

For further information, advice or a specification, please contact technical advisory on **01924 354100**



Please Note

Microbarr can help to prevent infections but is not a substitute for good hygiene control and should be used as one of the many ways in the fight against infections in public domains.

Benefits include:

- Japanese JIS Z 2801 tested*
- Inhibits growth of MRSA and E.Coli*
- Contains Silver Ion technology
- Proven to actively inhibit bacteria
- Washable and durable
- Contains fungicide/algicide
- The paint does not discolour*

*Based on Acrylic Matt and Acrylic Eggshell

Where do I use it?

Johnstone's Microbarr Anti Bacterial Coatings have been developed for use in areas where hygiene protection is required.

Common usage will include wall and ceiling areas in establishments such as:

- Hospital wards
- Operating theatres
- Doctors' surgeries
- Veterinary hospitals
- Abattoirs
- Schools
- Retirement homes

Johnstone's Microbarr Anti Bacterial Coatings have been developed to give excellent adhesion over suitably prepared wood, metal, wall and ceilings ensuring all substrates in an area can be covered.

Johnstone's Microbarr has been developed to be both tough and highly durable, which creates a seamless finish.

All products in the Microbarr range contain a fungicide/algicide to inhibit algal and fungal growth which are damaging to coatings.

Microbarr is therefore particularly suitable in environments subject to wear and tear, heavy traffic and condensation.



The Perfect Solution

Johnstone's Microbarr is tough, durable and proven to protect against over 150 strains of bacteria.

Quite simply, wherever the highest standards of hygiene are required, Johnstone's Microbarr, when used alongside regular cleaning procedures, provides the perfect solution.

Testing

Unlike many similar anti bacterial coatings, Johnstone's Microbarr has been tested to incredibly stringent Japanese Industry standards*. These have proven that Johnstone's Microbarr stops the spread of:

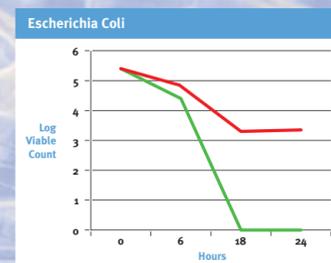
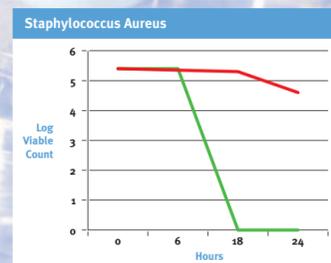
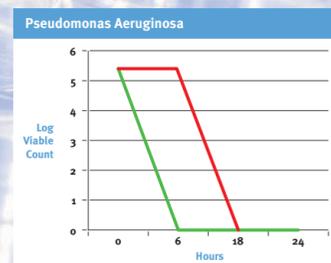
- E.Coli
- MRSA
- Pseudomonas Aeruginosa

The Japanese JIS Z 2801 test method works by introducing live bacteria on to the coating and incubating it for 24 hours. The inocula are then washed off and the remaining live bacteria counted in order to determine the effectiveness of the coating. The following graphs exhibit the impressive rate of decline; **99.9% of bacteria are eradicated within 18 hours where Microbarr has been used, in comparison to slight reductions with standard coatings under the same, independent test conditions.**

*Based on Acrylic Matt and Acrylic Eggshell

Antibacterial Action of Microbarr*

Standard Coating Microbarr



*Based on Acrylic Matt and Acrylic Eggshell

Anti Bacterial Coatings



Anti Bacterial Acrylic Eggshell & Matt

Size: 5L

Johnstone's Microbarr is a high performance, tough acrylic resin based interior coating, formulated using silver ion technology that actively inhibits bacteria and provides a tough, washable surface, ideal for areas subject to frequent cleaning.

- Inhibits growth of MRSA and E-coli
- Contains silver ion technology
- Proven to actively inhibit bacteria
- Available in over 15,000 colours



Ideal Usage: New and previously painted walls, ceilings and galvanised steel.

Specification Guide

New Plaster Surfaces	First Coat Decoration	Final Decoration
Johnstone's Microbarr Anti Bacterial Acrylic Eggshell	Overall apply 1 coat of Johnstone's Acrylic Wall Primer Sealer – thinned up to 20% by volume with clean water	Apply 2 coats of Johnstone's Microbarr Anti Bacterial Acrylic Eggshell. Allow a minimum of 4 hours between coats
Johnstone's Microbarr Anti Bacterial Acrylic Matt	Overall apply 1 coat of Johnstone's Acrylic Wall Primer Sealer – thinned up to 20% by volume with clean water	Apply 2 coats of Johnstone's Microbarr Anti Bacterial Acrylic Matt. Allow a minimum of 4 hours between coats
Previously Painted Plaster Surfaces	First Coat Decoration	Final Decoration
Johnstone's Microbarr Anti Bacterial Acrylic Eggshell	Apply to all bare and made good areas Johnstone's Acrylic Wall Primer Sealer – thinned up to 20% by volume with clean water	Apply 2 coats of Johnstone's Microbarr Anti Bacterial Acrylic Eggshell. Allow a minimum of 4 hours between coats
Johnstone's Microbarr Anti Bacterial Acrylic Matt	Apply to all bare and made good areas Johnstone's Acrylic Wall Primer Sealer – thinned up to 20% by volume with clean water	Apply 2 coats of Johnstone's Microbarr Anti Bacterial Acrylic Matt. Allow a minimum of 4 hours between coats

Anti Bacterial Aqua Gloss

Size: 2.5L

Johnstone's Microbarr Anti Bacterial Aqua Gloss is a water based, high performance, high sheen gloss with the added benefit of silver ion technology. Silver is a natural antimicrobial and inhibits the growth of bacteria.

Specially formulated to have all the characteristics of a traditional gloss with the added benefits of being quick dry and low odour ensuring all tasks can be completed in one day.

Use in conjunction with Johnstone's Aqua Water Based Undercoat to give the best possible finish.



Available in over 6,000 colours



Ideal Usage: Ideal for suitably prepared interior and exterior wood and metal, and in areas where minimal disruption is necessary.

Specification Guide

New Timber Surfaces	Priming	First Coat Decoration	Final Decoration
Johnstone's Microbarr Anti Bacterial Aqua Gloss	Overall apply 1 coat of Johnstone's Aqua Undercoat. Allow a drying time of 1-2 hours	Overall apply 1 coat of Johnstone's Aqua Undercoat. Allow a drying time of 1-2 hours	Apply 2 coats of Johnstone's Microbarr Anti Bacterial Aqua Gloss. Allow a minimum of 4 hours between coats
Previously Painted Timber Surfaces	Priming	First Coat Decoration	Final Decoration
Johnstone's Microbarr Anti Bacterial Aqua Gloss	Spot prime any bare or exposed timber with 1 coat of Johnstone's Aqua Undercoat. Allow a drying time of 1-2 hours	Overall apply 1 coat of Johnstone's Aqua Undercoat. Allow a drying time of 1-2 hours	Apply 2 coats of Johnstone's Microbarr Anti Bacterial Aqua Gloss. Allow a minimum of 4 hours between coats