



New Guard Coatings Group

A global reputation to protect.

The information herewith is given with the best of New Guard Coatings Group knowledge.

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This information is not exhaustive and it is the user's responsibility to ensure that this data sheet is the most current by contacting their local New Guard Coatings Group branch prior to using the coating/product.

www.newguardcoatings.com

NORTH • SOUTH EAST • MIDLANDS • NORTH WEST • HULL • SCOTLAND

THERMOGUARD ANTI-MICROBIAL SFR

ANTI-VIRUS SMOKE & FLAME RETARDANT PROTECTION PAINT

Fire protection to wood & wood-based boards to
Class O and BS EN Class B s1 d0

91.5% coronavirus reduction in just 2 hrs + 99.9% bacteria reduction in 24 hrs



CORONAVIRUS, INFLUENZA & BACTERIA

Coronavirus and flu have shells which delay disintegration of virus cores to remain infectious on emulsion painted walls for weeks.

The shells also shield the core from our antibodies when inside us. Spikes on virus shells penetrate lung cell's receptors when open as we breath in, spike ends act as anchors to prevent the virus being naturally flushed away while the spikes form pathways for viral cells directly into lungs.

Bacteria are simple single cell microbes that multiply to infest walls. Their outer layer is a membrane much less resistant to biocides than virus shells.

Regrettably, affordable metals effective against fungal microbes in wood preservation are unsuitable. Only very high concentrations of combined extreme cost modified metals enable painted surfaces to achieve rapid coronavirus 90% reduction, while polyurethane smoothed and hardened pure acrylic resins are needed to avoid microbial safe havens created by all the cheap powders in very matt emulsions.

Thermoguard Anti-Microbial Smoke & Flame Retardant SFR's safe, permanent mix of high concentration nano / microscopic particle silver, zinc oxide in the protected surface damage virus shells and bacteria membranes.

Thus exposed, coronavirus and influenza cell death is notably accelerated on the surface, our antibodies can kill them and their spikes lose the ability to penetrate or act as a pathway for virus cells into our lungs.

ANTI-VIRUS & BACTERIA TEST STANDARDS

Human coronavirus

91.5% reduction of human coronaviruses in just 2 hours in approved ISO 21702 virus microbiology laboratory coated surfaces tests 16 Dec 2020.

Infectious bacteria

99.9% bacteria reduction in 24 hours in ISO 22196 tests for coated surfaces 5 Feb 2021.

Thermoguard Anti-Microbial Smoke & Flame Retardant SFR provides permanent protection to supplement rather than replaces good hygiene.



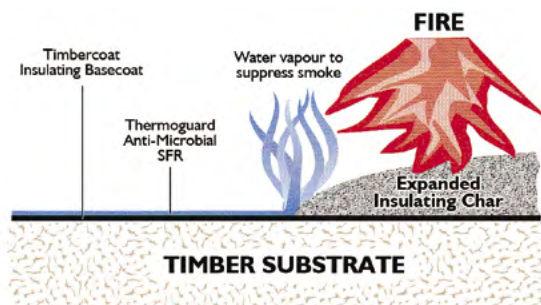
View video online at: www.thermoguarduk.com

FLAMESPREAD & SMOKE

The Fire Safety Order 2005 requires property managers to comply with current Reaction to Fire standards for wood in rooms as well as means of escape.

Fire standard BS EN **Class B s1 d0** is compliant for all internal areas as it protects from toxic gases and smoke as well as flamespread.

The old **Class O** will cease to be compliant when the high smoke rating s3 and significant flaming droplets d2 belatedly cease to be accepted.



HOW IT WORKS

Heat from fire causes a catalytic reaction within the smoke and flame retardant finish to emit an instant surface flame and smoke suppressant non-toxic vapour.

Heat from fire then causes catalytic compound in Timbercoat Insulating Basecoat to react, making a "blowing agent" generate an internal foaming action contained within Anti-Microbial Smoke & Flame Retardant SFR by a "char former" as it makes the char former expand. The char former creates a dense insulating layer. The insulating layer is hardened by hardening agents and given extra firmness by fire resistant fibres for lasting protection after expansion.

FIRE TEST STANDARDS

BS EN **Class B s1 d0** (old **Class O** compliant plus full smoke and flaming airborne particulates protection) at UKAS approved UK fire test laboratory.

Class B s1 d0 on all wood and wood-based boards mandated by the EN fire standard governing body – softwood, ply and wood particle board, plus MDF.

Fire and Anti-Microbial Certificate free, after application.



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PREPARATION & METHOD

- Surfaces should be firmly adhered, clean, dry and free of surface contamination. Remove loose, flaking or suspect paint film.
- Dust-free 120 grit wet or vacuum abrade existing very smooth or hard coatings for a key.
- Seal stains or knots liable to bleed with stain blocker for acrylic paints.
- Apply Anti-Microbial Smoke & Flame Retardant SFR by brush, dense woven pile fabric roller or spray.

APPLICATION

- 1 coat Timbercoat Insulating Basecoat.
- 1 coat Anti-Microbial Smoke & Flame Retardant SFR.
- Brush, dense woven pile roller, spray.
- Optional clear glaze to extend painting cycles.

External – 2nd coat SFR Dualcoat to front, back, edges & ends.

FINISHES, COLOURS & SIZES

- **Thermoguard Select:** <https://bit.ly/3l8YZ6n>; BS381, BS4800 and RAL: <https://bit.ly/2PMXqxx>; NCS 5,000+ colours.
- Matt and Satin.
- Sold in 20sqm and 80sqm cans to avoid genuine error and Certification problems.

APPLICATION CONDITIONS

- Min. 5°C
- Max. RH 75%
- Surface 3+°C above dew point.
- Avoid condensation or extra fast-drying conditions.
- Seal leaching stains & knots with acrylic compatible stain sealer

All materials and specifications are provided in accordance with the Terms and Conditions of Thermoguard UK Ltd.
Refer to Health & Safety Data Sheets before using these products.

DURABILITY & MICROBIAL RESISTANCE

High concentration of pure acrylic resin hardener and smoothed with polyurethane avoid microbial safe havens created by all the cheap powders in even the most expensive very matt emulsions, and makes Thermoguard Anti-Microbial Smoke & Flame Retardant SFR suitable for areas subject to regular cleaning regimes.

Anti-Microbial Smoke & Flame Retardant SFR's metal-based biocides do not leach out with humidity or during cleaning to provide permanent virus and bacteria protection.

QUALITY ASSURANCE

Thermoguard products are manufactured under ISO 9000.

ENVIRONMENTAL, HEALTH & SAFETY

Thermoguard Anti-Microbial Smoke and Flame Retardant are water-based low odour, low VoC, user and eco-friendly. Complies with Biocidal Products Directive.

AVAILABILITY

Available from independent specialist painting and decorating merchants throughout the UK.

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THERMOGUARD
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