

THERMOGUARD SAFEWALLS SFR

ANTI-VIRUS SMOKE & FLAME RETARDANT PROTECTION PAINT



Upgrades general and multi-layer painted walls and ceilings to
Class 0 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 Safewalls'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 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 Safewalls provides permanent protection to supplement rather than replace good hygiene.

FLAMESPREAD & SMOKE

The Fire Safety Order 2005 requires property managers to comply with current Reaction to Fire standards. New ones include smoke as well as flamespread.

Multiple layers of incompatible paints can create a surface spread of flame risk from moderate Class 2 to severe Class 4.

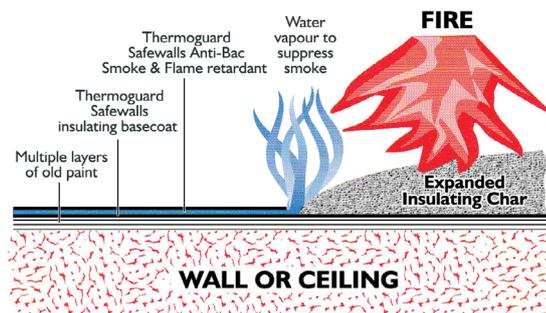
Paints used in major buildings pre-2010 commonly contained Timonox antimony, relying on emission of highly toxic antimony chloride gas to control flamespread.

As emission of toxic smoke and gas is permitted under Class 0 and s3 smoke, Thermoguard recommend the safer and future-proof compliant EN smoke standard s1 achieved along with the Class 0 equivalent Class B and flaming airborne particulate control d0 by Thermoguard Safewalls over combinations of multiple coats of antimony-based and all types of internal wall paints.

Extreme flammability foam insulation panels which emit cyanide gas is in millions of buildings' walls and ceilings, increasing need to control flamespread.

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.

Old Class 0 will cease to be compliant when the high smoke rating s3 and high flaming droplets d2 that Class 0 permits 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 a fire causes an extra-quick reaction catalytic mixture to react with a "blowing agent" to generate an internal foaming action contained by a "char former". The char former then expands to create a dense insulating layer. The insulating layer is hardened by hardening agents and given extra firmness by fire resistant fibres which help hold the char together during and after expansion.

Watch on YouTube

View video online at: www.thermoguarduk.com



FIRE TEST STANDARDS

BS EN Class B s1 d0 (old Class 0 compliant) on both 14 and 20 coats of all types of paints since 1960 used on NHS, other Govt, Commercial buildings and house internal walls and ceilings. Tested applied directly on paper-faced plasterboard and wallpaper over painted plasterboard – the two highest risk wall substrates.

Thermoguard Safewalls's level of protection is so great that results over 14 coats, 20 coats and softwood are all 75% below the limits for both the Class B standards (Total Heat Release THR and Fire Growth Rate FIGRA).

These save Thermoguard users and specifiers concern over the type, number or combination of types of previous paint coats to qualify for Thermoguard's uniquely meaningful Certification for Safewalls permanent, effective protection following Thermoguard's unique due diligence individual project project checks.

APPLICATION

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

New dry lining – seal with board manufacturer's recommended sealer.
Replace Insulating Basecoat with 1 coat Thermoguard Wallcoat Anti-Microbial Primer.

New dry plaster – replace Insulating Basecoat with 1 mist + 1 full coat Thermoguard Anti-Microbial Primer.

APPLICATION CONDITIONS

- Min temp 5°C, Max RH 75, Min 3°C above dew point
- Do not apply if condensation or extra-fast drying possible
- Seal leaching stains 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.



FINISHES, COLOURS & SIZES

- **Thermoguard Select:** <https://bit.ly/3l8YZ6n>; BS381, BS4800 and RAL: <https://bit.ly/2PMXqwx>; NCS 5,000+ colours.
- Matt and Satin.
- Sold in 25sqm and 100sqm cans to avoid genuine error and Certification problems.

DURABILITY & MICROBIAL RESISTANCE

High concentration of pure acrylic resin hardenend and smoothed with polyurethane avoid microbial safe havens created by all the cheap powders in even the most expensive very matt emulsions, and makes Safewalls suitable for areas subject to regular cleaning regimes.

Safewalls'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 Safewalls Anti-Bac 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.

Units B1, B2 Enterprise Park,
Wigwam Lane, Hucknall, NG15 7SZ.
Phone: 01142 768008
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