

Topaz Zero

The sustainable alternative



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Today's specifications often require sustainable solutions for a better environment. Topaz Zero, part of our Purearth greener living range has been designed to meet these needs whilst still proving a magnificent, long lasting finish.



VOC free
We are committed to developing low solvent waterborne products that contain minimal VOC without compromising quality and longevity. Topaz Zero is the culmination of this development process.



Hazard free
All of our decorative products, including the Topaz range are free from lead. We are dedicated to reducing hazardous material globally.



Climate
Topaz Zero, by nature, is the sustainable range that you can trust to reduce your environmental impact.



Less waste
We concentrate on developing advanced solutions to reduce waste and save energy.



Corporate responsibility
Our goal is to drive sustainable business practices around the globe, striving to work responsibly and ethically at all times.

VOC

What is it:
Volatile organic compounds used in solvent-borne and conventional waterborne paint in different concentrations.

What does it mean to you:
Can contribute to health risks when inhaled: eye, skin, nose and throat irritation, headaches, loss of coordination, nausea, dizziness, breathing difficulties, asthma attack. Contribute to poor outdoor and indoor air quality. Contributes to global warming.

APEO

What is it:
Alkylphenol ethoxylate is a group of chemical substance commonly used in conventional waterborne paint.

What does it mean to you:
Hazardous to health and the environment considered as endocrine disruptors.

Formaldehyde

What is it:
A volatile, strong smelling chemical used in conventional paint raw materials as well as in many building materials.

What does it mean to you:
Contribute to low indoor air quality and strong smell after painting. Fatal if inhaled, toxic if swallowed or in contact with skin, causes severe skin burns and eye damage, may cause cancer, is suspected of causing genetic defects and may cause an allergic skin reaction.

Lead

What is it:
A heavy metal that can be found in all parts of our environment – the air, the soil, the water, and inside our homes. It is used in many coloured pigments in paint.

What does it mean to you:
Toxic to reproduction due to severe effects on fertility and on the unborn child. Causes damage to organs through prolonged or repeated exposure and is harmful if inhaled.



Topaz Zero emulsions

Environmentally friendly waterborne topcoat designed to prevent growth of harmful bacteria and mould. Based on 100% pure acrylic and gives a smooth luxurious matt finish with excellent opacity, washability, flexibility and colour retention properties.

Certificates

Antibacterial, complies with ISO 22196

Antifungal, complies with BS 3900

VOC, complies with LEED and ISO 11890-2

Fire Resistance, complies with BS 476

Accelerated Weathering of 500 hours, complies with ASTM G151

Scrub Resistance, complies with BS EN ISO 11998:2006

	Topaz Zero Matt 58803	Topaz Zero Silk 58903	Topaz Zero S.G 58703
Finish	Matt	Silk	Semi-Gloss
Colour/Shade			Available in more than 5000 colours from multi-tint**
Volume solids	36 + - 2%	38 + - 2%	38 + - 2%
Theoretical spreading rate*	12.0 m ² /litre - 30 microns	12.7 m ² /litre - 30 microns	12.7 m ² /litre - 30 microns
Specific gravity	1.4 kg/litre	1.4 kg/litre	1.3 kg/litre
Scrub resistance	44.6 g/m ² weight loss	6.5 g/m ² weight loss	7.8 g/m ² weight loss

* Dependant upon DFT, substrate and the relevant consumption factor.

** Also have you seen Healthcare and Education colour schemes for additional support and advice.

Why it is important to prevent growth of harmful bacteria and mould on surfaces?

Growth of micro-organisms on painted surfaces can cause general discomfort, skin irritation and allergies. Topaz Zero technology helps to ensure a safer, healthy and clean environment.

Topaz Zero emulsions with Silver Ions

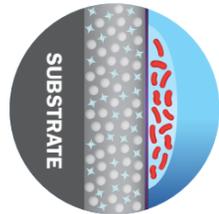
Topaz Zero emulsions with Silver Ions

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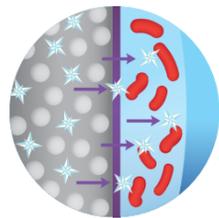
The effect of Silver Ions:

When a silver-based compound is exposed to micro moisture, it releases active Silver Ions that eliminate bacterial growth on surfaces by killing existing microbes through damaging the microbial cell DNA.

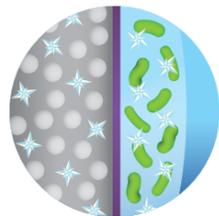
The action can take place on e.g. door handles, painted surfaces and it can even be embedded into textile products like hospital gowns.



Micro-moisture carries bacteria and can cause mould. Anti-microbial additives in Topaz Zero protect against and prevent the growth of mould.

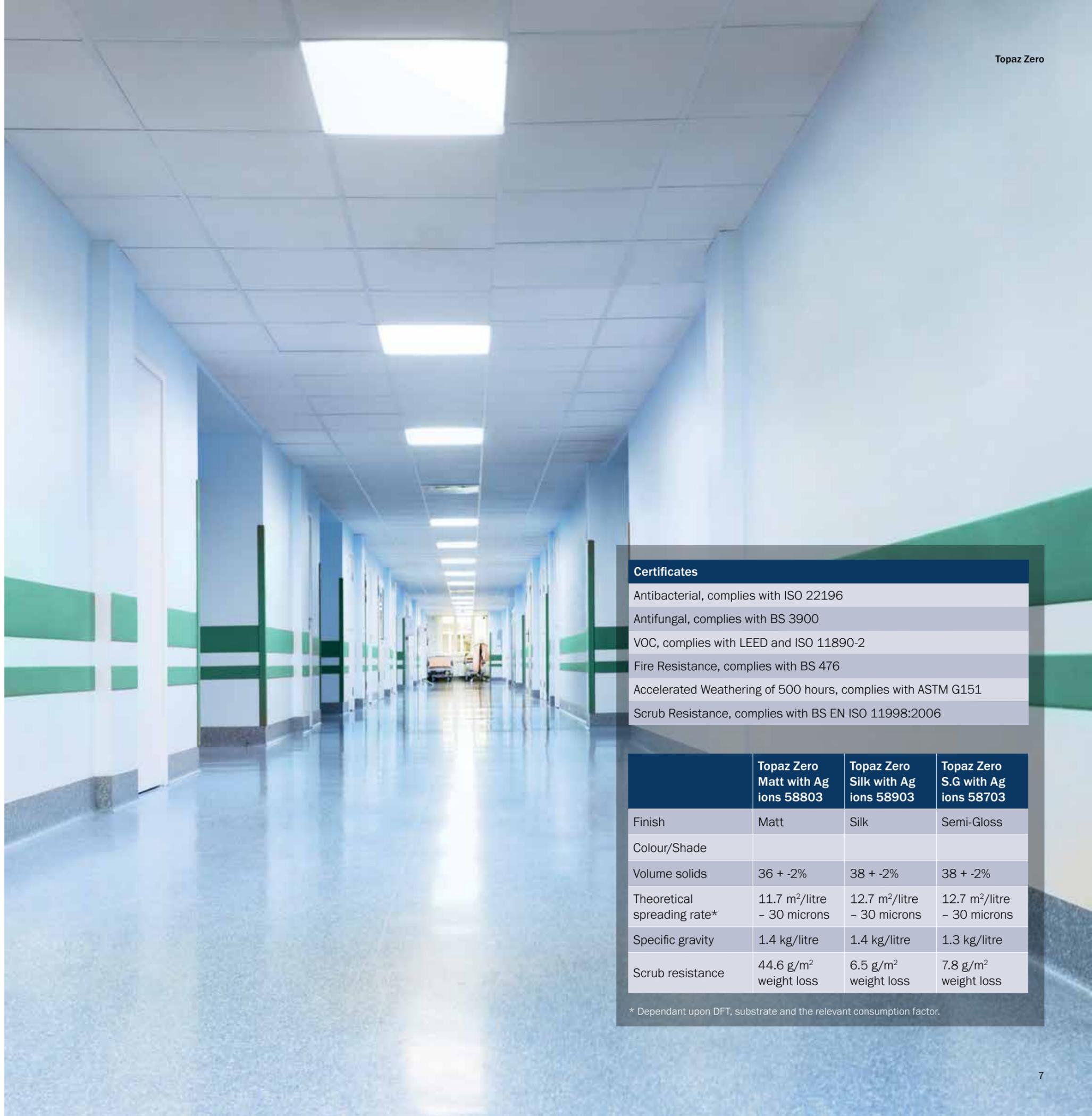


Silver Ions in Topaz Zero are activated when the paint comes into contact with micro-moisture, seeking out and attaching themselves to the bacteria that the micro-moisture carries.



The Silver Ions neutralise and eliminate the bacteria, leaving the surface clean and helping to prevent the spread of infection.

Already in 2003, the U.S. Food and Drug Administration approved the use of silver in the food industry, which further helps to prevent bacterial epidemics.



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	Topaz Zero Matt with Ag ions 58803	Topaz Zero Silk with Ag ions 58903	Topaz Zero S.G with Ag ions 58703
Finish	Matt	Silk	Semi-Gloss
Colour/Shade			
Volume solids	36 + -2%	38 + -2%	38 + -2%
Theoretical spreading rate*	11.7 m ² /litre - 30 microns	12.7 m ² /litre - 30 microns	12.7 m ² /litre - 30 microns
Specific gravity	1.4 kg/litre	1.4 kg/litre	1.3 kg/litre
Scrub resistance	44.6 g/m ² weight loss	6.5 g/m ² weight loss	7.8 g/m ² weight loss

* Dependant upon DFT, substrate and the relevant consumption factor.

Primers and fillers



Topaz Zero Filler

An environmental friendly waterborne filler with excellent filling, sanding and workability properties. Designed to prevent growth of harmful bacteria and mould.

Topaz Zero Primer

An environmental friendly waterborne primer with excellent sealing properties and excellent white opacity. Designed to prevent growth of harmful bacteria and mould.

	Topaz Zero Filler 380ME	Topaz Zero Primer 280ME
Finish	Matt	Matt
Colour/Shade	Off white / 11630	Off white / 10000
Volume solids	52 + -2%	38 + -2%
Theoretical spreading rate*	1.45 m ² /kg - 200 microns	12.7 m ² /litre - 30 microns
Specific gravity	1.8 kg/litre	1.5 kg/litre

* Dependant upon DFT, substrate and the relevant consumption factor.

Project references

Hamad Medical City, Qatar

Our customer needed the reassurance of a trusted emulsion that would withstand regular washing, would look good and last. They chose Hempel as their preferred supplier, not only for our advanced coatings range that met their stringent criteria, but for our renowned service throughout projects and after completion.

Topaz Zero emulsions with their environmental credentials and superior washability offered the perfect solution. Over 300,000m² of walls at Hamad Medical City are coated with our Topaz Zero emulsions and our customer can be assured of a colour-fast finish that is easy to maintain for years to come.



Jaber Al Ahmad Al Jaber Sabah Hospital, Kuwait

This is the largest medical centre in the state of Kuwait. A hospital that provides 1,168 beds together with state of the art medical services to a projected population of 600,000. The hospital will be keeping with the Kuwait Ministry of Health's long-term strategy to provide the highest quality of health care to the people of Kuwait.



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Kuwait

As a world-leading supplier of trusted coating solutions, Hempel is a global company with strong values, working with customers in the protective, marine, decorative, container and yacht industries. Hempel factories, R&D centres and stock points are established in every region. Across the globe, Hempel's coatings protect surfaces, structures and equipment. They extend asset lifetimes, reduce maintenance costs and make homes and workplaces safer and more colourful.

Hempel was founded in Copenhagen, Denmark in 1915. It is proudly owned by the Hempel Foundation, which ensures a solid economic base for the Hempel Group and supports cultural, social, humanitarian and scientific purposes around the world.

Hempel Dammam
+966 13 847 1616

Hempel Bahrain
+973 1772 8668

Hempel Emirates
+971 6 531 0140

Hempel Oman
+968 24592759

Hempel Jeddah
+966 12 257 4567

Hempel Kuwait
+965 2 202 0700

Hempel Abu Dhabi
+971 2 555 2279

Hempel Iraq
+964 7500130963
+964 7507334485
+964 7509985017

Hempel Riyadh
+966 11 497 7839

Hempel Syria
+963 31 5360150/8

Hempel Qatar
+974 44 55 9000

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