

## Technical Datasheet

### A High Performance Anti-Microbial Coating System



#### Product Description

Germ-shield® coating is a unique and environmentally friendly coating system, consisting of Nano Silver micro composites. Anti-microbial technologies minimise the presence of bacteria, mold and fungi. In contrast to anti-bacterial agents, anti-microbial substances offer a greater level of product protection.

#### Technical Information

Coating Type:	Two pack coating system which includes a hardener
Colour Types:	Any Dulux Spandek colour (minimum set-up fee might apply)
Finish Types:	Clear or Satin
Gloss Level:	Satin (optical transparency), meets ASTM D523 Standard @ 60° - 20 - 40 gloss
Life Expectancy:	Permanent for life of coating application

#### Performance Characteristics

Bacterial Resistance:	99.996% reduction in Golden Staph bacteria and Escherichia Coli, as tested to JIS Z 2801:200 standard
Effective Controls:	Golden Staph, Staphylococcus aureus, VRE (Enterobacter faecalis ) plus include Enterococcus, Bacillus Cereus, Salmonella choleraesuis
Cleaning Resistance:	Resistant to general cleaning materials, soaps and Isopropyl Wipes
Toxicity:	Non toxic to humans and environment
Chemical Resistance:	Excellent, meets ASTM D1308 – Acetic acid, Hydrochloric acid, Sulphuric acid, Sodium Hydroxide – no effect
Petrol and Oils:	Excellent resistance to solvents, petrol (98% octane) and oils
Water:	Excellent resistance to water splash and immersion
Flexibility:	Very flexible, meets ASTM D4145 @ 0-2 T-bend - no pick or flake off
Pencil Hardness:	Good, meets ASTM D3363 F-2H
Abrasion Resistance:	100% resistance to rubbing and scrubbing
Adhesion:	Excellent, meets ASTM D 3359 Class 5 Cross hatch test – no adhesion loss
Humidity:	Excellent, meets ASTM D714 & ASTM D2247 - no blisters, colour change, or gloss variation @ 100% humidity at 40°C
Weather Resistance:	Unique excellent resistance to weathering in salt atmosphere locations
Heat Resistance:	Very good - oven ageing at 80°C (dry heat)
Salt Spray Resistance:	Very good, meets ASTM B117 5% Salt Fog @ 95°C
Durability:	Excellent long term durability, low surface energy resists dust adherence
UV resistance:	Excellent colour retention and resistance to fading, meets AAMA 2605-17
Coating Thickness:	10 – 15 micron