



Data Sheet: easy-on+ Anti Bacterial Paint

Anti bacterial coating combining two leading products - easy-on™ and Akacid® plus.

Akacid® plus biocide provides continuous protection from bacterial infection, MRSA, E. Coli, C. Diff and other HAI's as well as fungal growth including ESBL- producing Gram- negatives.

Akacid® plus is a member of the polymeric guanidine family of disinfectants developed to enhance antimicrobial activity with significantly less toxicity.

Physical data

Colour	Opaque cream
Finish	Clear sheen
Substrates	Concrete, tile, mortar, existing coatings, plaster, brick and metals, timber, etc.
Components	2 (resin + cure)
Curing mechanism	Chemical reaction between components
Dry film thickness	25 - 50 microns
Number of coats	1 (usually)
Moisture permeability	35gm/ m ² /24 hours
SG of mixed product	1.12 kg/L
VOC content	<8% weight
Calculated coverage	33 m ² per litre @ 25 microns
Practical coverage	9 - 33 m ²

Dependant upon application losses, surface irregularities, porosity, waste, etc

Application By brush, roller, HVLP or conventional spray equipment.

Environmental conditions	Air temperature	5°C to 50°C
	Surface temperature	5°C to 45°C
	Material temperature	5°C to 40°C
	Relative humidity	>40%

To prevent condensation during application, surface temperature must be at least 3°C above dew point.

Pot life	4 hours at 20°C (depend on temperature and quantities mixed.)
Touch dry	4 hours @ 20°C (@25 microns dft) (time depends on climatic conditions and coating thickness)
Full chemical cure****	7 days

Do not attempt to clean the coating with any chemical until it has fully cured (7 days at 20°C)

Storage life	12 months in cool, dry place in sealed containers
Equipment Cleaner	Xylene or Gun Cleaner
Inflammable	no
Flash point	Resin > 97°C Cure > 96°C

Packaging

Resin	3,750 l in 5 litre can
Cure	0,750 ml in 1 litre can

Publications (copies available on request)

Biomedical Research Centre July 2009: Testing easy-on+ augmented with Akacid® plus

Toxicon Sept 2006: Ultrastructural evidences of growth inhibitory effects of Akacid® plus

Journal of Antimicrobial Chemotherapy June 2006: antimicrobial & toxicological profile of Akacid® plus

Applied and Environmental Microbiology June 2006: Validation of Akacid® plus as a room disinfectant

Journal of Hospital Infection Nov. 2005: In vitro antimicrobial activity of polymeric guanidine Akacid® plus

European Society of Clinical Microbiology & Infectious Diseases April 2006: Room disinfection using Akacid® plus

Antimicrobial Agents and Chemotherapy, Sept 2007: In Vivo Activity of Akacid® plus in experimental skin infection with MRSA



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Application Guide: easy-on+ Anti Bacterial Paint

Coating performance is proportional to the degree of surface preparation.

Surfaces must be clean, dry (<6% moisture), undamaged and free of all contaminants prior to coating.

Many modern surfaces, especially when new, have a layer of grease, oil or other contaminants on them. To ensure good adhesion it is important these surfaces are thoroughly cleaned with a water based degreaser and that the degreaser used is then washed away before attempting to apply the coating.

Both the contaminants and the degreaser can reduce adhesion so cleanliness must be considered critical.

- Prepare damaged areas to original surface preparation specifications, feathering edges of any intact coating system.
- For optimum application, temperature of the material should be between 20°C and 30°C prior to mix and application.
- Gradually add total contents of Cure tin into Resin tin and stir thoroughly to a uniform consistency.
- Apply one thin coat by brush or small roller without diluting. See below for spray instructions.
(See technical data sheet for spreading rates)
- Use a cross-lapping method of application to avoid misses and ensure corners and edges are covered.
If the surface is porous do not attempt to cover with one application. Apply a thick coat, leave for 3 – 4 hours to partially reduce porosity, then apply a second light and even coat.

SUGGESTED SURFACE PREPARATION:

Plaster Surface must be dry

Stainless Steel Abrade, sweep blast or high pressure water blast.

Aluminium Degrease followed by abrading blast or chemical conversion treatment.

Galvanizing Degrease followed by abrading or chemical conversion treatment.

Concrete New concrete - Abrade to remove laitance.
Aged concrete must be thoroughly cleaned.

Aged Coatings All surfaces must be clean & dry, tightly bonded and free of loose flakes (existing paint) and corrosion products.

Brick/stone All surfaces must be clean and dry and free of loose material.

Timber, etc Ensure surfaces are clean and dry.

SPRAY INSTRUCTIONS:

With all spraying it is advisable to warm the material before use to 20°C and pass the mixed material through a 400 mesh filter. Use two quick passes; one horizontal and one vertical to ensure overall coverage.

HVLP+ Walter pilot:

- Use 2,2 bar pressure with the 1,8 mm nozzle.
- WFT should be between 25 and 40 microns.

Conventional air spray (pressure pot):

- Use 0,2 bar material pressure and 3,5 bar assisted air pressure.
- Apply the recommended WFT of around 25/30 microns.

ALWAYS CLEAN OUT THE UNIT THOROUGHLY WHEN FINISHED SPRAYING. LEAVE SMALL AMOUNT OF CLEANER IN THE SPRAY POT.





Benefits: easy-on+ Anti Bacterial Paint

Infection control paint

A long lasting alternative to silver ion technology

Incorporating Akacid^{®plus} biocide

(Contains Guanidium chloride molecules to disrupt cell surfaces of bacteria)

• Outstanding Characteristics!

Proven easy-on™ technology – used worldwide

Eradicates pathogenic organisms

Does not support colonization of bacteria.

MRSA related bacteria eradicated in 1 – 24 hours. ~97 – 99.7% reduction without additional cleaning.

In tests, Akacid solution eliminated all hospital pathogens within 340 min.

Coated surfaces do not support spores or fungal growth.

• Where to use!

Wherever infection control is required • Hospitals • Clinics • Health Care Buildings • Surgeries • Dental Practices • Veterinary Practices • Zoo's • Laboratories • Pharmaceutical areas • Food Industry • etc.....

• Surfaces!

Suitable for almost any clean and dry building and finishing material or surface.

Frequently used to overcoat and upgrade existing paint finishes to reduce redecoration cycles.

• Cleanliness!

Easily cleaned with a wide range of products. Biocide works even after multiple cleaning steps.

• Simple!

One coat - easy application – quick drying - permanent durable finish – up to 22 years protection.

• Characteristics!

Durable chemical resistant finish with incredible abrasion resistance.

Unaffected by common cleaning chemicals and solvents.

• Cost Benefit!

Extends period between redecoration by years – saves money and reduces disruption

• Safe!

Safe during and after application - no residual smell or toxic fumes. User friendly and compliant with environmental legislation.

• Effective!

Akacid^{®plus} – accepted biocide according to EU Commission, Regulation 1896/2000.

Resistant to growth of MRSA, E Coli, Salmonella, Listeria etc

Antimicrobial activity against pathogenic bacteria, spores and fungi

• Tested:

- Department of Internal Medicine, University of Vienna
- AKA Technology Vienna
- Forschungszentrum für Medizintechnik und Biotechnologie Bad Langensalza
- Biomedical Research Centre, SHU, UK : longevity test results show ~97 – 99% bacteria count reduction of Escherichia Coli, Staphylococcus aureus. Tests include Enterococcus hirae, Pseudomonas aeruginosa, Candida Albicans and Aspergillus niger.
- Medizinische Universität Wien. Universitätsklinik für innere Medizin

