

Anti-Microbial Wood

A water based, self-cross linking pure acrylic anti-bacterial coating for wood surfaces

A single component, flexible and durable water based, self-cross linking pure acrylic coating containing silver chloride technology to provide a highly resistant anti-bacterial finish. Anti-Microbial Wood is designed for application to interior & exterior wood surfaces.

Intended Uses:

Anti-Microbial Wood has been specifically developed for application to interior or exterior wooden doors, trims, benches, walls, or any wooden surfaces requiring protection from the development of bacteria, yeast & fungi. This product is suitable for areas such as wet rooms, sauna's, kitchens, change rooms, hospitals & processing facilities.

In addition to the anti-bacterial properties, Anti-Microbial Wood will provide surfaces with excellent mechanical resistance, weather resistance, and water & scrub resistance.

Properties:

- Anti-bacterial properties. Surfaces are resistant to the development of bacteria, yeast, mould, and fungi.
- Good washability & scrub resistance.
- Luxurious silk matt finish.
- Excellent exterior durability.
- Long open time / very good flow and levelling.
- Extremely fast drying & blocking resistant (compared traditional alkyd enamels).
- Very flexible.
- Excellent resistance to water, salt water, ethanol, coffee, and red wine.

Antibacterial Resistance Chart:

Test Organisms		
Bacteria	Moulds	Yeasts
Pseudomonas aeruginosa	Aspergillus niger	Candida albicans
Escherichia coli		
Staphylococcus aureus		

Technical Data:

Colour	Clear & colours
Finish / Gloss	SilkMatt
Density	1 Kg (for clear)
Volume Solids	35 – 40%
Typical Film Thickness	35 – 35µm per coat (60 – 70µm WFT) 60 – 70µm DFT total
Theoretical Coverage	11.40 m ² / Litre @ 35µm DFT, allow for loss factors
Method of Application	Brush, roller, or spray
Viscosity	+/- 80 to 90 KU

Drying Information:

	0°C	5°C	15°C	20°C	40°C	45°C
Touch Dry	-	-	-	30 min	-	-
Hard Dry	-	-	-	34 hrs	-	-
Full Cure	-	-	-	-	-	-
Overcoating Data – See Limitations						
Substrate Temp.	0°C	5°C	15°C	20°C	40°C	45°C
Minimum	-	-	-	4 hrs	-	-
Maximum	Extended*					

* See Specialized Coating Systems Definitions & Abbreviations.

* A curing temperature below 10°C is not recommended, adequate ventilation should be maintained during application and curing. The figures quoted above have been determined at the quoted temperature and 50% RH. If overcoat limit is reached the coating must be lightly abraded prior to re-coating.

Surface Preparation:

Remove any fungal growth or algae with Fungicidal Wash. Leave on the surface for approximately 1 hour and then scrub with a hard bristle brush to remove all dead growth. Rinse thoroughly and repeat if necessary. Allow to dry.

Wood and Desired Timber Products:

Coat with Anti-Microbial Wood. New or raw wood can be treated with LignaPrime first to prevent rot.

Plasters, Lime Cement Mortars and General Cement Mortars:

Shall have a compressive strength of 1.5N/mm²: solid plasters with normal absorbency require no preliminary treatment. Highly porous or powdering surfaces should be primed with either SIMPLY® Plaster Primer SB or DampPrime Damp Masonry Primer SB prior to painting.

Gypsum Based Products:

Should be primed with either Epoxy WB GP Primer or SIMPLY® Plaster Primer SB /Bituminous & Porous Sealer Primer. Adhesion of the full coating system should be carried out prior to commencing coating project to ensure adequate penetration and adhesion of the coating system.

Concrete:

Remove all residues of separating agents from formwork oil residues and chalking residues by means of high-pressure water jetting and degreasing.

Autoclaved/Cellular Concrete:

Prime with Deep Penetrating Primer WB Clear or SpecSil Breathable Primer WB Clear followed by a FillerCoat if required.

Facing Brickwork or Fair = Faced Sand Lime Brick Masonry:

For interior substrates generally no pre-treatment is required.

Sound/Stable Existing Coating:

Matt, slightly absorbent coatings can be coated without a preliminary preparation. Roughen/sand glossy surfaces and enamel coatings, prime with Bituminous & Porous Sealer Primer or DampPrime Damp Masonry Primer SB.

Unstable Existing Coating:

Carefully remove unstable coatings of enamel, dispersion. Emulsion paint or plasters. Prime slightly absorbent, smooth surfaces with Bituminous & Porous Sealer Primer or Deep Penetrating Primer WB. Prime highly absorbent surface with Bituminous & Porous Sealer Primer/ DampPrime Damp Masonry Primer SB or SIMPLY® Plaster Primer SB. Remove any unstable, loose paints/coatings.

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Stains Surfaces:

Nicotine, water, fat/grease, markers – wash off as much of the stains as possible with a household detergent and allow to dry. Apply Stain Blocking Primer WB Clear.

Application:

Mixing	Material is supplied in plastic containers. This is a one component product and does not require a hardener. Agitate/stir the product well before use to ensure a homogeneous mix and no settlement of pigments.	
Method	Apply with a paint brush, roller, or airless spray equipment	
Thinner	Water	0 – 5% potable water
Airless Spray	Recommended	Tip range 21 – 26 Thou. Pressure at the tip should not be less than 150 bar.
Brush/Roller	Recommended	Typically, 50 – 100 µm can be achieved.
Work Stoppage	Thoroughly flush all equipment with water . All unused material should be stored in tightly closed containers. Partially filled containers may show surface skinning and/or a viscosity increase of the material after storage. Material should be filtered, and viscosity re-adjusted before use.	
Clean Up	Clean all equipment immediately after use with water . It is advisable to periodically flush out spraying equipment throughout the course of the working day. Frequency of cleaning is dependant of upon the amount sprayed, temperature and elapsed time, including delays.	
Notes	Good airflow around the object is essential once coated. If the relative humidity limit of 70% is exceeded, drying, and overcoating times will be severely extended. Application below the minimum film forming temperature of the coating and/or poor ventilation will result in poor film coalescence and a powdery cracked film which will require removal prior to re-application.	

Environment:

	Surface Temperature	Ambient Temperature	Relative Humidity
Minimum	5°C*	5°C	No lower limit
Maximum	35°C	35°C	80%

* Or 3°C above dew point

Limitations:

- Moisture content of substrate may not exceed 7%.
- Overcoating information is given for guidance only and is subject to local climate and environmental conditions. Consult a Specialized Coating Systems representative for specific recommendations.
- Do not paint under conditions of frost, dew, rain, or inclement weather. Painting under these conditions will affect the performance of the paint film.
- Technical and application data herein is for the purpose of establishing a general guideline of the coating application procedures.
- Test performance results were obtained in a controlled laboratory environment and Specialized Coating Systems makes no claim that the exhibited published test results, or any other tests, accurately represent results found in all field environments. As application, environmental and design factors can vary, due care should be exercised in the selection and verification of the performance and use of the coating.

Pack Size:

5 Litre & 20 Litre.

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Whilst we endeavour to ensure that all advice we give about the product is correct, the information given in this data sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so entirely at his own risk. As conditions of use, method of application and suitability of the substrate prior to painting are beyond our control, no guarantee is implied by the recommendations contained herein. We therefore do not accept any liability whatsoever or howsoever arising from the performance of this product or for any loss or damage arising out of the use of this product. The information contained in this sheet is liable to modification from time to time in the light of experience and ongoing product development programmes. It is the user's responsibility to ensure that this sheet is current prior to using the product

Storage:

- Shelf Life: 12 months at 25°C from date of manufacture. Subject to inspection thereafter.
- Store in dry conditions out of direct sunlight, away from sources of heat or ignition.
- Store at temperatures between 5°C and 35°C.

Precautions:

For complete safety and handling information please refer to the appropriate Safety Data Sheets prior to using this product.