

# Hygiene+™ '99 Compliant Lacquer

## Information

Hygiene+ High Build Lacquer produces antibacterial surfaces on a broad range of substrates.

Furniture, doors and panelling can all be protected against bacteria and fungal spores, including E.coli, listeria and MRSA.

Product effectiveness has been verified by independent microbiologists. (Test results on reverse).

May be used as a coat-on-coat system to give a high build finish that meets FIRA 6250 Severe Use standard for durability.

**Always stir well before use.**

### Hydrocarbon Free

Based on alcohol and ester solvents. Improves the workplace environment. Assists towards compliance with the Environmental Protection Act.

### Compliant Coating

VOC content when catalysed - less than 435gms per litre. Fully compliant. Conforms to full requirements for spray coating as laid down in guidance Note PG6/33 (97) Clause 20.

This exceptionally high solids (>57% mixed) lacquer will enable a wood coater to meet the legislation under the mass balance route, where 1:1 solids : VOC ratio is the requirement.

For the small / medium VOC user (5-15 tonnes VOC p.a.) The high solids will allow the continued use of solvent stains whilst meeting the 1:1.6 solids ratio required. It will also meet the specification for a clear lacquer compliant coating in the Guidance Note for Wood Coating Processes PG6/33.

### Film Performance

Hygiene+ High Build Lacquer is specially formulated to meet the 'Severe Use' requirement for horizontal surfaces, excluding worktops, as specified in FIRA Standard 6250.



## A high build antibacterial lacquer with low VOC

<b>Lacquer</b> Antibacterial A/C Coating High Solids 20%	<b>Number</b> DM2137-0020	<b>Sheen</b> 20%	<b>Viscosity</b> 24 - 25 secs
<b>Catalyst</b> Acid Catalyst (Mix 20:1 by volume. It is important that the correct amount of catalyst is added.)	<b>Number</b> DV2008		

### Application

Apply by HVLP spray / air assisted / airless spray. The use of heated spray systems can prove beneficial in reducing application viscosity, improving flow and eliminating the need for the addition of thinners. Consult our technical service department for use with other application techniques.

### Drying

Touch Dry: 20 - 30 mins  
Sanding: 1½ - 2 hours  
These times may be reduced by force drying.  
Packing: 24 hours minimum

### SG/Coverage

0.96 (mixed) / 12 square metres per litre

### Pot Life

Minimum 8 hours. Catalysed lacquer left overnight should be adjusted for viscosity and mixed 1:1 with freshly catalysed lacquer prior to use.

### Thinners

Acid Catalysed Thinners: DT2004

### Cleaning Fluid

To maintain full anti-microbial activity Becker Acroma Antibacterial coatings should be washed only with

warm water and a mild detergent.

### Stains

Where required, ES2160-type water stain.

### Woodfiller

Nitrofilla

### Limitations

Do not use over white or pastel shade enamels.

Do not apply over Polyurethane Lacquers or vice-versa, as severe yellowing may develop on ageing. Cherry and similar timbers can be prone to reddening when exposed to natural daylight, which is accelerated by the presence of acid in glues and lacquers.

Not recommended for use on horizontal working surfaces in laboratory, kitchen or bar situations.

### Health & Safety

Refer to separate Health and Safety data sheets for individual products.

## Independent Test Results

Independent tests have shown Becker Acroma Antibacterial Coatings to be more effective than other commercially available hygiene coatings. The test results are outlined below. Further test data is available on request.

Bacteria	Test Result	Common Effects
Escherichia coli	99.9% kill rate in 24 hours	Food poisoning - can be fatal
Staphylococcus aureus	99.9% kill rate in 24 hours	Severe / short term food poisoning
Pseudomonas aeruginosa	99.9% kill rate in 24 hours	Variety of infections incl. respiratory
Salmonella typhimurium	99.9% kill rate in 24 hours	Food poisoning / typhoid
Klebsiella pneumoniae	99.9% kill rate in 24 hours	Pneumonia
MRSA	99.9% kill rate in 24 hours	Severe post operative infection
Listeria monocytogenes	99.9% kill rate in 24 hours	Septicemia, meningitis, encephalitis
Fungal Spores		
Bacillus cereus	99.9% kill rate in 24 hours	Food poisoning, possible skin lesions
Aspergillus niger	99.9% kill rate in 24 hours	Possible allergenic

## Application Example

### Hygiene+ Antibacterial Acid Catalysed High Build Lacquer System - DM2137-0020

- Substrate:** Solid timber or veneer, e.g. Pine, Oak, Mahogany etc.
- Sanding:** 150 / 180 grit, finished with 220 grit.
- Staining:** Where required, use ES2160-type waterbased stain.
- Drying:** At a shop temperature of 20 C: 1 hour. Accelerated drying with warm air (30-35C) will reduce grain raising. A light de-nib at this point will enhance the quality of the finish.
- Basecoat:** DM2137-0020 mixed 20:1 by volume with DV2008.
- Film weight:** 40 – 45 gms / sq. metre.
- Drying:** At a shop temperature of 20 C: 90 minutes.
- Sanding:** 280 / 320 grit.
- Topcoat:** DM2137-0020 mixed 20:1 with DV2008.
- Film weight:** 40 – 45 gms / sq. metre.
- Drying:** 24 hours before packing or stacking.

## Application Equipment

- HVLP spray:** Fluid tip size: 1.0 – 2.0 mm.  
Atomisation pressure range: 20 – 50 psi. / max 10psi @ tip.  
In-feed fluid pressure range: 0.25 bar / metre of fluid hose.
- Airmix:** Fluid tip size: 0.22 – 0.33 mm.  
Atomisation pressure range: 15 – 30 psi.  
In-feed fluid pressure range: 40 – 50 bar @ fluid tip.