

Surface Finishes for Brass



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Indestructible

Paint Ltd

Organic Surface Finishes



Why do we Finish?

- **Brass oxidises and goes dull and green**
- **Retain that “Just Polished Look”**
- **Add colour and finish**
- **Enhance the design properties**
- **Increase the designers scope**

How do we finish?

Clear & Tinted Lacquers



- **Lacquer Types**
 - Air Drying
 - Stoving
- **Lacquer Application**
 - Spray
 - Dip
 - Roller Coating
 - Electrophoretic

N/C Air Drying Lacquers

- **Fast Drying**
- **Range of Gloss Levels**
- **Range of colours and tints**
- **Excellent Visual Properties**
- **Fair Durability-Internal Use only**
- **Spray; Dip or Roller Coating**
- **Light Fittings: domestic; some commercial**
- **Switch Plates**
- **Fancy Goods**
- **Dials**
- **Low price architectural hardware**

Incralac



- **MOD approved system**
- **Excellent exterior durability, but 3-4 coats needed**
- **Used on architectural projects**
- **Used in marine applications**

Epoxy Stoving Lacquers

- **Rapid Dust Dry**
- **Lower Temperature Stoving**
- **Range of Gloss Levels**
- **Range of Colours & Tints**
- **Excellent Hardness & Scratch Resistance**
- **Excellent Chemical Resistance**
- **Application by Dip; Spray or Roller Coating**
- **Architectural Hardware**
- **Light Fittings & Switch Plates**
- **Boat Fittings**
- **Dials**
- **Clocks**
- **Bathroom Fittings**
- **Coffin Fittings**

Acrylic Stoving Lacquers

- **High Build Coatings**
- **Excellent Weathering**
- **Heat Resistance**
- **Gloss & Matt Finishes**
- **Available in Clear & Tinted Versions**
- **High Quality Architectural Hardware**
- **Fire Surrounds & Grates**
- **Boat Fittings**
- **Carrousel Poles**
- **Bathroom Fittings**

Typical Applications



Case Study



SSK Products Ltd

**Manufacturers of light switches
and switch plates**



SSK Products Ltd

Product Requirements

- That “Just Polished Look”;
(need for no visual appearance of a surface coating)
- Requirement for “corrosion Protection” on edges etc
- Scratch resistant surface
- Ability to coat both brass & other metals
- Also requirement to increase production capabilities



SSK Products Ltd



Technical Solutions

- Epoxy Stoving Lacquer; clear & colours
- Automatic Electrostatic Spray
- Infra Red Curing



SSK Products Ltd



Now Produce:

- "Polished" Brass
- "Antique" Brass
- "Polished" Brushed Stainless
- Satin Nickel
- Pewter



SSK Products Ltd

General View of plant

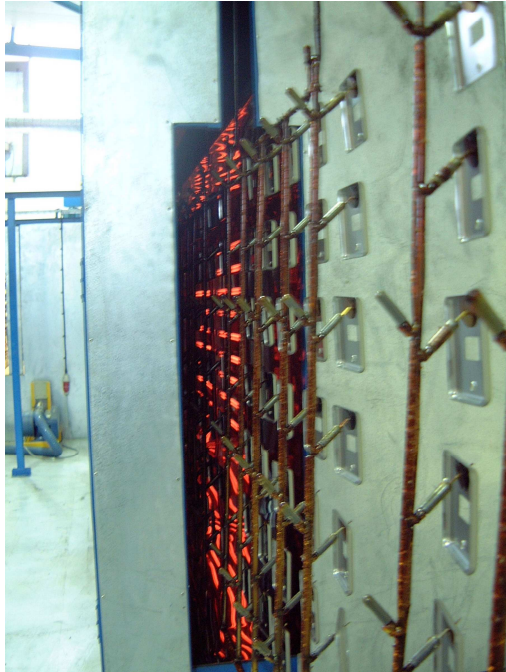


Electrostatic Spray

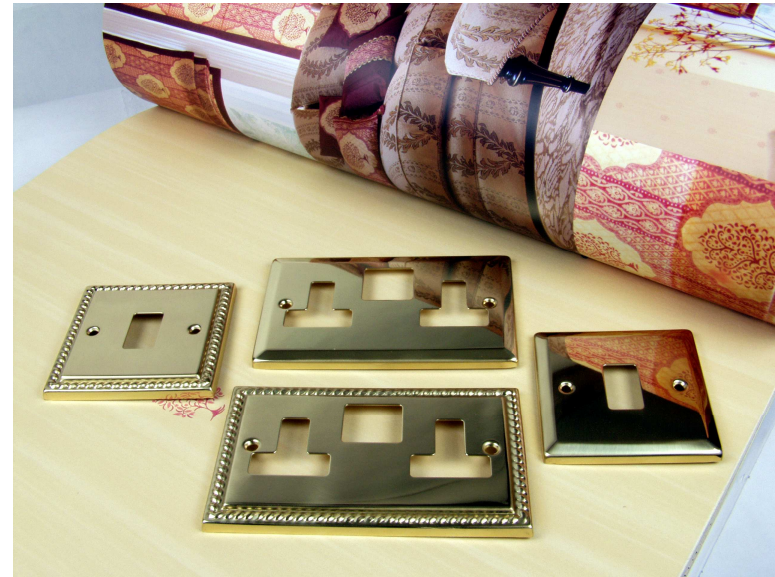


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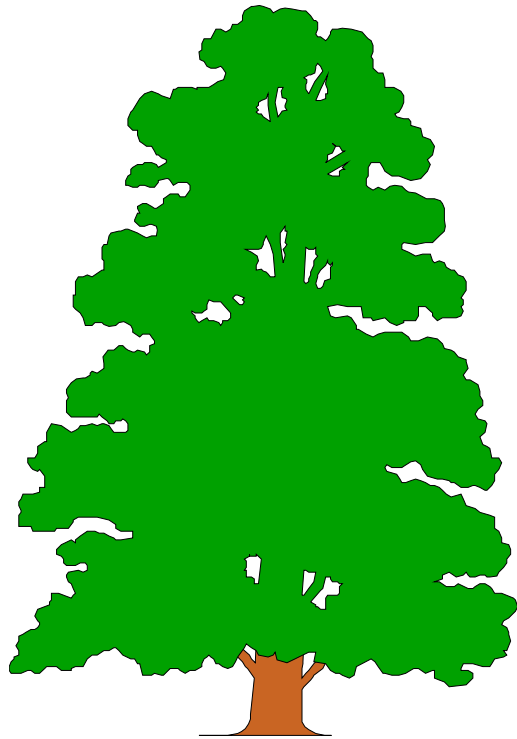
Infra Red Cure



The Finished article



Environmental Issues



- **Solvent Emissions**
- **Requirement for Low Build Coatings**
- **High Solvent Content of Traditional Lacquers**
- **What's the alternative?**

Water Based Systems

- **No/Minimal Solvent Content**
- **Can obtain low build coatings**
- **Application by traditional spray or Electrophoretic**
- **More Control on Application & Curing Conditions**
- **Durability**
- **Material Costs**
- **Capital Expenditure**
- **Process Control**

Ultra Violet Cure Systems

- **No/Minimal Solvent**
- **Rapid Cure**
- **High Gloss/High Build Coatings**
- **Excellent Hardness**
- **Excellent Clarity**
- **Specialist Equipment**
- **High Capital Expenditure**
- **High Build Coatings**
- **High Material Costs**

Powder Coatings

- **No Solvent**
- **Easy application**
- **good utilisation**
- **minimal wastage**
- **Special equipment**
- **high curing temp (but reducing)**
- **high film build application not easily controlled**
- **not the best clarity**

Design Options

- **Range of Gloss Levels Matt to Gloss**
- **Special effects:-**
 - Antique**
 - Colour**
 - Verdigris**
 - Tints**
- **Shading**



Conclusions



- **Finishing Retains Natural Beauty of the Metal**
- **Colour and Finish can be Enhanced**
- **Increased Design Options**

- **Maintenance Reduction**



Questions???

