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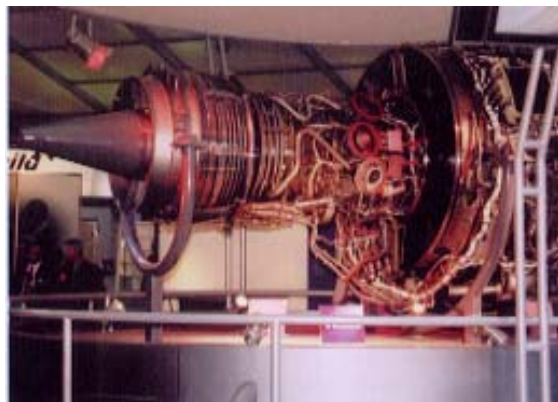
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In this issue we are reporting a number of new products that have been introduced or are being introduced by Indestructible Paint Ltd to meet current and future environmental requirements. Whilst new environmentally friendly materials are being introduced by the company, as part of an ongoing development programme, it is also involved in 'greening' a number of its existing products. Ever increasing demand for this type of coating, particularly from the international aerospace industry but also from industry in general, is the driving force behind the majority of the company's current development projects.

Aerospace

Green engines Transatlantic

Indestructible are directly involved in UK and US aero engine manufacturers programmes to introduce 'greener' engines. Previously described work on a chromate free, low VOC, xylene/toluene free exterior coating system is now approved and production is under way. In addition, the latest in the series are two Rolls-Royce approved products, again both xylene/toluene free. The new materials, IP9029-R2 and IP9188-R1, are high temperature capable corrosion and erosion resistant coatings.



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Low chrome sacrificial inorganic coating

Designed to provide sacrificial corrosion protection and erosion resistance while operating at temperatures of 500-600° C on gas turbine blades, Indestructible's newly introduced Ipcote 9182 is a low chrome alternative to IP9183, a well established inorganic aluminium/silicate ceramic based coating. Also used in many other applications, these materials withstand 3,000 hours ASTM B117 salt spray, exposure to 650° C for 1,000 hours and cyclic salt spray exposure. They are also impervious to organic solvents even at elevated temperatures.

And an award

As a result of its work in the areas mentioned above, Indestructible were runners up in the process innovation category at the Surface Engineering Association awards, presented by Lord Hoyle at its annual dinner. The dinner and awards were held at the International Convention Centre, Birmingham.

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Industrial & Marine

UV cure systems



Demand for environmentally friendly coatings comes from all sectors.

UV cured materials are particularly suitable for this purpose as they contain little or no solvent and are used in a number of areas including on plastics.

Recent development work has seen their benefits of low solvent content and rapid cure rates being investigated in several new areas, including: -

 durable lacquers for sports equipment,

 'Wet Look' (condensation effect) coatings for drinks fonts and cosmetics closures,

 sound insulation in aerospace applications,

 ordnance coatings, and

 exterior durable lacquers and paints for automotive and aerospace applications.

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New Paints for the Rylard range

Indestructible Paint Ltd., has recently added a number of environmentally friendly 2-pack polyurethane paints to its range of Rylard marine coatings. Designed to provide owners and re-finishers of pleasure craft with the benefits of low VOC finishes, the new range of Rylard colours are widely available from its European distributors or direct from Indestructible.

Higher paint solids, a result of the lower solvent level in these products, provides the additional benefit of increased spreading power and, therefore, greater economy of use.

Derived from Indestructible's range of high performance aerospace spray finishes, the new Rylard 2-pack urethanes have been re-formulated for marine use. An extended wet edge time now allows easy application by brush, roller or paint pad in addition to spray.



Narrowboat painted in Rylard low VOC 2-pack polyurethane green.

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Exostar

Indestructible Paint Ltd., has been designated as a 'Tier One' supplier by Rolls-Royce under the new Exostar initiative.

Exostar is a web based procurement system. Using this Rolls-Royce and other aerospace company's such as BAE, Boeing, Lockheed-Martin and Raytheon can purchase quantities of coatings over the web from Indestructible or other suppliers in the network.

Snippets!

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Scuff and adhesion

Special clear scuff resistant coatings are currently being formulated and developed by Indestructible for sealed anodised parts. Sealed anodising presents a serious adhesion and scuff resistance problem for any coating used to protect or enhance it. Although useful in a number of applications, the company is concentrating initially on specific materials for automotive and aerospace companies.

50 years of Rockhard high performance epoxy coatings

Rockhard! The name of this newsletter, and one of the principal products of Indestructible Paint Ltd.

Rockhard coatings are the epoxy, and epoxy phenolic based paints, first introduced by Gittings & Hills Ltd., of Birmingham, in 1952. Acquired by Indestructible in 1978 they have been one of the main sources of the company's growth since that time.

First used on the original SRN1 hovercraft and the thin magnesium skin of the Westland Wessex helicopter, Rockhard, in various forms has since been used to protect, seal and colour an enormous range of aircraft, defence, automotive and marine components.

Needless to say, the original Rockhard coatings have been developed significantly over the years - with new variations, formulated for a variety of different uses - being added from time to time,

Rockhard coatings now come in both 2-pack 'cold cure' types as well as the traditional stoving variants.

Many versions of the product have been used by the Royal Navy, the Royal Air Force, BAE, Rolls-Royce and a variety of foreign air forces and manufacturers.

Most coatings in the range are now formulated to be as environmentally friendly as possible, without loss of performance. Indeed the level of performance of these coatings has steadily increased since their introduction.

Rockhard is used in many industries where components require maximum corrosion and erosion resistance.

Made of steel, aluminium, magnesium and titanium, examples include castings, undercarriages, jet air intakes, heat exchangers and compressor vanes in jet engines.

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Magnesium protection

Rockhard is exceptional as a protective coating for magnesium. The two items shown, to the right and below, are aerospace castings sealed with Rockhard 985-111-800 stoving clear. An extremely hard coating with excellent chemical and erosion resistance, 985-111-800 is also resistant to humidity and trichloroethylene and withstands anodizing or re-chromating. It provides protection to metals from attack in salt and other corrosive environments. Used in conjunction with heavy film anodic coatings, it can resist up to 8000+ hour salt spray, to ASTM B117.



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Plastic coatings



The following are examples of some of these and their applications: -

- Velsuede, provides a soft feel suede effect on automotive fascias and in other applications, • pearlescent coatings with colour flip-tone effect have a wide range of uses including office equipment and on mobile phones,
- bright 'Chrome Effect' finishes.
- Indestructible's 'chewable' coatings meet toy regulations and are also used on children's tooth brushes,
- safety coatings are used on saucepan handles, for example. These change colour to indicate high temperature.
- Also used on saucepan handles are Indestructible's

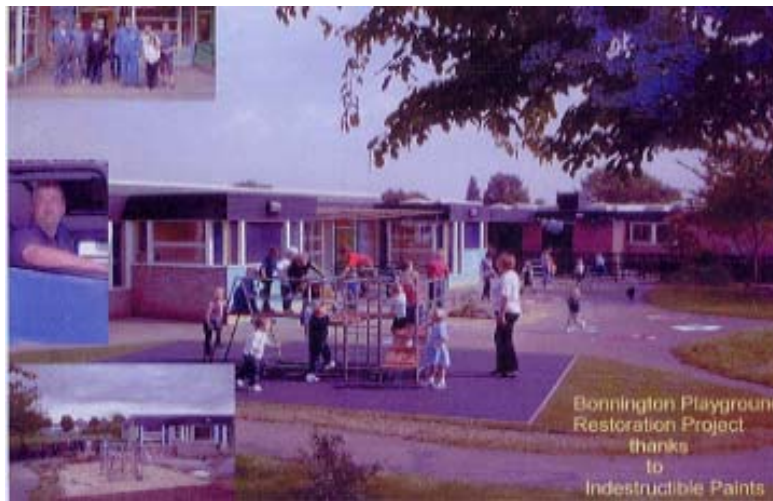
Indestructible Paint Ltd., over the last few years, have developed a variety of coating types for plastics including air drying and UV cured paints and lacquers. These materials often have unusual properties and may, for example, provide colour flip-tones, 'pearl' effects or 'soft feel' to enhance the visual and textural properties of the plastic products coated.

dishwasher proof finishes.

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There are also safety coatings that change colour with temperature.

Community Projects



Involvement in community projects is not unusual for Indestructible Paint Ltd., and sometimes the activity involves one or more of its customers.

Approached recently by the Hucknall division of Rolls-Royce Aero Engines, one of Indestructible's main customers, the company became involved in the refurbishment of Bonnington School and community centre playground. A requirement for suitable paints for both wall and playground areas was identified by volunteers undertaking the necessary work.

The company was happy to co-operate and supplied, free of charge, quantities of Agricoat acrylic water based masonry paint for walls and two-pack heavy duty epoxy floor paints for playground areas.

'Flowers' and 'traffic lights,' were part of the design, and were some of the items requiring bright colours specially made for the purpose.

These were considered essential to provide an attractive and welcoming atmosphere.

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