

Clearclad gives Gillette the cutting edge

A SILVER GREY METALLIC LECTRAPEARL FINISH from PROGRESSIVE , Clearclad Coatings Inc., has been chosen and adopted by Gillette for the handles of its new Sensor 3 razor system.



TAILOR MADE by Clearclad Coatings Inc., at its facility in Chicago, the special finish was formulated on CLEARCLAD HSR resin technology.

The LECTRAPEARL process enables a "metallic" paint effect to be achieved as a one-coat process, while the HSR resin system contributes the hardness and chemical resistance necessary for a bathroom environment.

Using these technologies, Matt Kittridge, technical director of Clearclad Coatings produced a large number of sample finishes for Gillette.

After a thorough marketing study the finish illustrated was the one finally selected for the new razor.

This is an excellent example of a demanding requirement for both decorative and protective properties from the finish.

In addition, the electrophoretic application method enables a paint with these properties to be applied at an even film thickness to complex, or recessed, components while maintaining precise engineering tolerances.

The Gillette project was brought to a successful conclusion as a result of considerable team effort.

"Gilletts" and "Sensor" are registered trademarks of the Gillette Company.

TAILOR MADE . The above news item and the title column describe perfectly the flexibility of approach adopted by PROGRESSIVE and its distributors to the customer requirements. It also illustrates the adaptability of various technologies developed by the company.

Providing the customer with exactly what he wants, as opposed to trying to get him to make do with the nearest available stock item, although not exactly a new idea, making a refreshing change to the marketing approach of some companies , not to mention good business sneeze.

PSSPL achieves ISO 9001:2008 Certification

Q Progressive Surface Systems Pvt. Ltd. has always placed quality at the core of its operations. From its inception, the company has followed stringent quality control measures to ensure that every product consistently meets high performance and reliability standards.

A As part of its continuous commitment to quality excellence, Progressive Surface Systems Pvt. Ltd. implemented a comprehensive Quality Management System in accordance with the internationally recognized ISO 9001:2008 standard.

I This certification reaffirms the company's dedication to maintaining global standards in quality management, ensuring consistent product quality, enhanced customer satisfaction, and continual improvement across all processes.

Y Progressive Surface Systems Pvt. Ltd. became officially registered under **Certificate No. 99 100 16597**, effective **21st January 2016**, subject to successful completion of annual periodic audits.



PSSPL Unveils Dynamic New Spaces and a Fresh Factory Look!

PSSPL is proud to announce the introduction of a **dynamic showroom** and **meeting room** at our new office, thoughtfully designed to enhance client interactions and product understanding. This integrated space showcases our **entire product range in a well-organized sequence**, allowing clients to conveniently explore and comprehend our offerings in one professional environment.

Complementing this development, our **Vasai Factory** has recently received a **fresh new look**, with a complete repaint and revitalization that gives the facility a **modern, clean, and world-class appearance**. These upgrades reflect PSSPL's unwavering commitment to maintaining **high standards of infrastructure**, while ensuring an engaging and productive space for both our clients and our team.





Elsewhere in this issue you will see that "big name" companies are choosing Clearclad for their products.

I am often asked if "anybody important" uses Clearclad. My obvious reply should be that 'all our customers are important'. But this is not the answer the questioner is looking for.

Everybody is impressed if a "big name" uses your product.

In fact many 'big names' in the automobile industry use our coatings, but this is not always obvious because the coated item may not be very 'visible' and in any case will often be black.

Supplying more and more product into the automotive industry is an interesting situation for PSSPL. When PROGRESSIVE started, we tried to make a virtue out of not selling to the automotive industry. This was principally because we did not have suitable products at the time!

I remember giving some papers entitled 'Non- automotive applications of electropaint technology'. The point being that electropainting was almost exclusively associated with the automotive industry and so any other application must be interesting if only because it was so 'unusual'.

However, we gradually discovered that our products were finding their way into automobiles. We now have an interesting quantity of business in the automotive sector including our own

direct sales and some significant sales internationally through our distributors.

Why has this happened? Probably the two factors 'driving' it (so to speak) are technological advances and 'just in time' deliveries.

Automotive design engineers are, of course, very knowledgeable about material technology and are increasingly likely to investigate specialist materials to optimise their vehicles' performance.

Job coaters and finishers, working for the auto industry, are forced to comply with "just in time" delivery schedules and cannot afford their coating processes to be out of action for any reason.

PROGRESSIVE and many of its distributors are in the smaller service orientated business sector. This enables us to provide high technology and customised processes together with the service input that keeps the customer in constant production.

This is another example of where 'size is important'. Being relatively small can have advantages when dealing with really big organisations.

We can respond and innovate faster, support our direct customers more effectively and deliver on time to the auto manufacturers, appropriate coating technology of the right quality.

Previously we thought it necessary to be big to supply the auto industry, but things change. With change comes opportunity.

Particle filtration

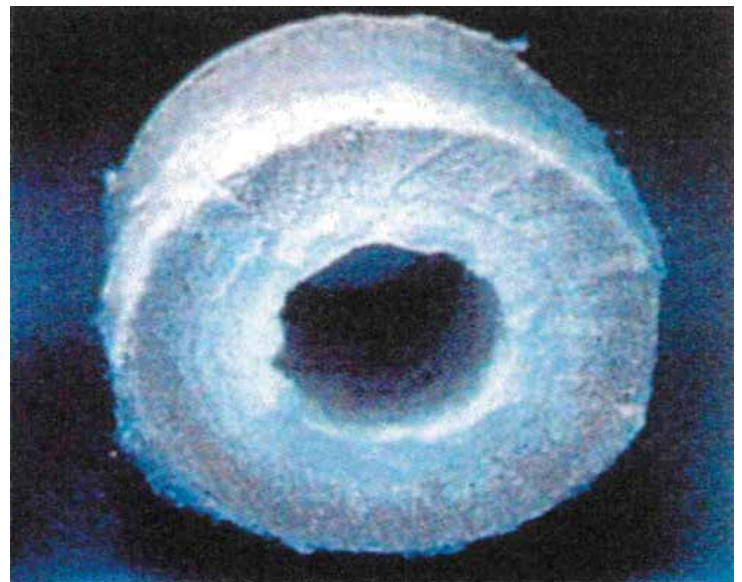
One of the main points of discussion at the PROGRESSIVE Distributors' conference was the design and maintenance of the various pieces of plant and equipment that are essential to the CLEARCLAD process.

Although all aspects of design and maintenance are obviously important, the emphasis often seems to fall on the ultrafiltration process. Because of this it was thought that some general information about particle filtration, always a potential source of problems, might also prove to be helpful.

AT FIRST SIGHT particle filtration can seem very simple. A liquid containing particles is passed through a filter material and the particles are retained in the filter.

But, there are different methods of particle filtration used in our industry and they require careful attention to ensure that the correct type is selected.

PROGRESSIVE conducted an investigation into the various types of filter available. The study started as an assessment of the cost effectiveness of various filter types. But during the investigation it became clear that some types of filter were not only inefficient but could actually cause significant problems if used on paint baths.



Cross section of a used depth filter showing the retained particles penetrating deep into the filter material. If these particles reach the central output of the filter and return into the paint they can cause craters.

Craters or fish eyes are a common defect in all paint finishes and are mostly caused by incompatible particles present in the deposited paint film.

Particle filtration continued.

In the electropainting process, the various process solutions - including the paint itself - should be filtered constantly to remove any potentially damaging particles.

Certain commonly available and low cost cartridge filter elements, when used on the paint bath, were found to be inefficient and had to be changed on a very regular basis.

This is clearly an unsatisfactory situation, as well as having low filtering efficiency the cost is high due to the more frequent replacement of filter elements.

Under certain circumstances such filter elements can also cause the cratering defects that they were supposed to be preventing, giving rise to serious quality problems.

The incorrect type of cartridge filter, for the paint bath, is the 'depth' type. Here the filter medium is in the form of a thin sheet which is pleated so that the surface area can be maximised within the cartridge housing.

These work by having a long path through a dense medium. Particles are retained principally by being slowed down and entangled in this medium.

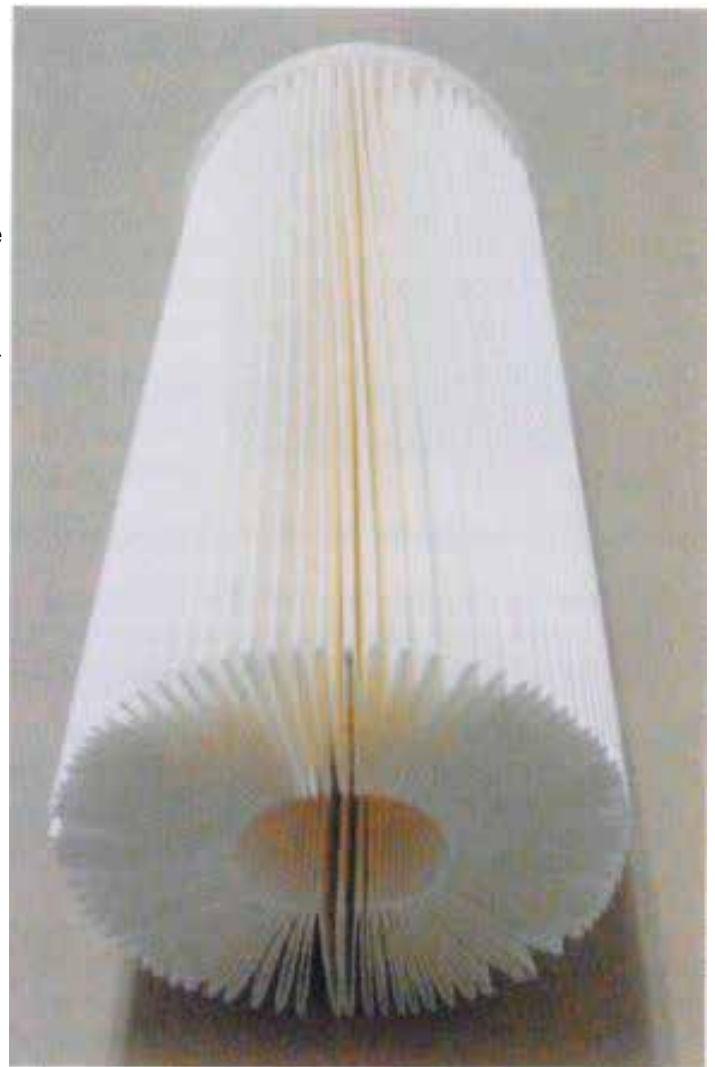
The correct type of cartridge filter is a 'surface' type. Here the filter medium is in the form of a thin sheet which is pleated so that the surface area can be maximised within the cartridge housing.

In paint baths these pleated surface filters last much longer than the equivalent 'depth' type and do not cause the associated problems.

Although pleated surface filters are generally more expensive per element than depth types, the real cost of using them is lower due to the lower replacement rate and the reduction in quality problems.

PSSPL is issuing two bulletins based on this study:-

- The 'Essentials' which details what type of filters should be used for various processes.
- A more detailed explanation of the technology of filtration and how it relates to our processes.



Cut open pleated surface filter showing the large surface area available from this type.

New from PSSPL - the NS Matt system

MATT FINISHES FROM NANOCOMPOSITE TECHNOLOGY - an example of how nanotechnology is delivering advances in coating applications. Expect further developments in this technology to bring many more advantages and novel applications in the future.

A range of gloss effects is usually obtained by blending CLEARCLAD Matting Base or Gloss Reducer with standard resin systems.

But if disruptions to power supplies interrupt bath agitation for any significant period, re-dispersing the settled matting agent can be difficult. In addition, when coating certain items, there can be problems with gloss differences between opposing surfaces due to the inevitable "gravitation" effects of conventional matting agents.

By employing similar nanoparticle technology to that used in ZETACLAD, PSS has developed matt-effect coatings that can survive stoppages to agitation and avoid gravitation effects.

A further advantage of this system is that the bath material can be fine-filtered as though no conventional matting agent is present

In the new NS MATT system the matting agents are nano-sized and will remain suspended in the bath independently of agitation. This is achieved by utilising a unique resin system that combines with the nanoparticles to 'assemble' into larger sized 'structures' that provide the matt effect during the deposition process.

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