

# INSIDER

ISSUE 06

For Internal Circulation Only

**PSSPL Wishes You Happy Diwali**

## PSSPL News

**VISIT US AT INDIA'S BIGGEST SHOW**

# WE ARE PARTICIPATING INDIA FASTENERS SHOW,

**PUNE EXHIBITION 22TH TO 24TH NOVEMBER 2024.**

*India Fastener Show,  
Pune International Exhibition & Convention Centre, Moshi, Pune.*

To Answer All Of Your Questions, Plan To Stop By Or  
To Schedule An Appointment.  
Email [Sourcing@progressivesurfacesystems.com](mailto:Sourcing@progressivesurfacesystems.com)

**VISIT US** STALL NO : A66



Join us at the India Fasteners Show 2024, the premier event for the fasteners industry, returning to Pune from **November 22-24, 2024**, at **India Fastener Show, Pune International Exhibition & Convention Centre, Moshi, Pune**. This three-day event will showcase the latest innovations and technologies that are transforming the fasteners sector. Visit our booth to explore our cutting-edge products. Don't miss the chance to connect with key players and find solutions tailored to your business needs.

## Product Focus : E-COATING



Las Vegas

### LVH COATING LTD CLEARCLAD HSR 415

Clearclad - LVH Coatings offers a unique finish along with UV stability and excellent durability. The UV stabilizers prevent bleaching in sunlight, making polyurethane ideal for final finish applications that are exposed to the elements.

UV stabilizers combined with crosslinking polyurethane chemistry make an E-coat that is every bit as durable as traditional epoxy and tougher than acrylic competitors. We have a full format matte black and smaller matte grey finish.



# NEW LAUNCH

# Auridior

## Plating Process for Gold

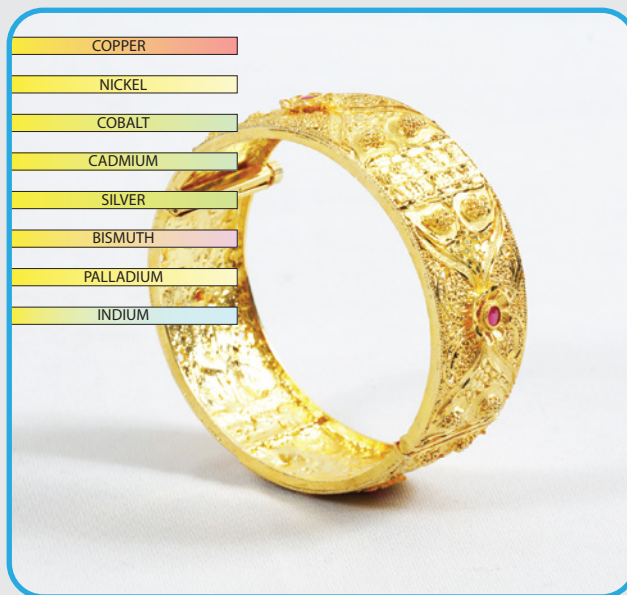


### AURICID – 1N, 2N, 3N, 5N

AURICID – 1N, 2N, 3N, 5N is a user-friendly acidic gold plating process that produces bright, durable alloy deposits with a hardness ranging from 160 to 200 Vickers. This makes it ideal for applications that require both durability and longevity. With proper setup, the process provides consistent and high-quality gold plating results for industrial and decorative purposes.

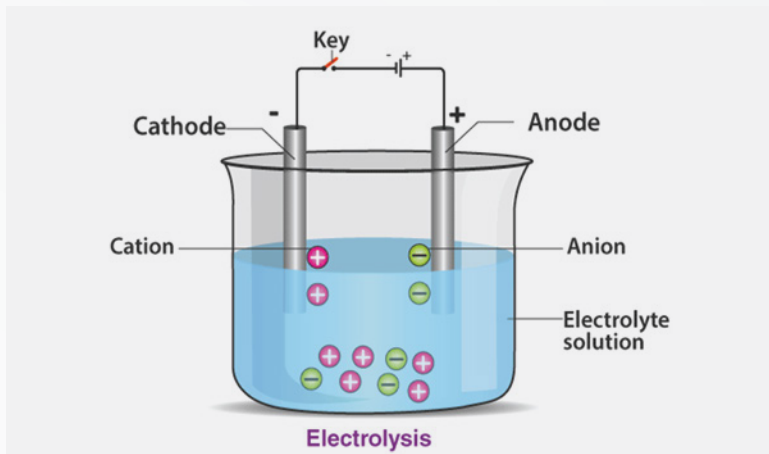
## LIQUID METAL COATING

Our Antique and Patina Liquid Metal Coating offers a fast, transformative way to achieve the timeless look of aged metal for both interior and exterior applications. This metallizing process seamlessly applies a cold, sprayable or puttyable metal coating to nearly any surface—foam, plastic, wood, metal, concrete, ceramics, and more. Made of up to 95% metal, it delivers the authentic look, feel, and properties of hot-cast metal, including texture, luster, and heat conductivity. Perfect for creating the antique effect, this coating turns any surface into a striking metallic finish with remarkable durability and aesthetic appeal.



### AURICF– 14 to 24 Karat

Gold-AURICF is a specialized gold plating process that uses a unique gold complex combined with compatible metals and complexes to create stable gold flashes. It offers all standard gold shades commonly used in jewelry applications, with color options ranging from 14 to 24 karats.



## SERIES 3 BASICS OF ELECTROPLATING

*In Continuation From Last Issue*

### 34. WHY ARE INSOLUBLE ANODES USED IN ELECTROPLATING?

Insoluble anodes are crucial in electroplating to maintain uniform spacing and prevent excessive metal buildup in chemically reactive baths. They control cadmium metal buildup in alkaline baths and reduce inventory costs in precious metal plating, such as gold plating, and theft risk.

### 35. WHAT ARE THE DISADVANTAGES OF INSOLUBLE ANODES IN ELECTROPLATING?

Insoluble anodes generate strong oxygen evolution and chlorine in chloride-bearing electrolytes, causing corrosion in plant equipment. They are not useful in organic addition agents or cyanides, and maintain metal content through continuous salt addition.

### 36. WHY IS IT IMPORTANT TO REGULATE THE SOLUBLE ANODE CURRENT DENSITY?

Anode current density must be regulated to ensure proper dissolution, as high current density can lead to insoluble anodes, oxygen evolution, and metal depletion. To reduce current density, more anodes, corrugated sheet anodes, or reduced tank voltage can be used. In alkaline tin plating, anodes are intentionally polarized for better deposits.

### 37. HOW MAY THE PERMISSIBLE ANODE CURRENT DENSITY BE INCREASED?

The permissible anode current density may be increased in acid plating baths by raising the solution temperature, increasing the amount of agitation, raising the chloride ion concentration, or by lowering the pH. In alkaline plating baths the agitation may be increased, the "free cyanide" concentration may be increased, the bath temperature may be raised, or the pH may be raised to increase the permissible anode current density. Also, certain impurities may be added to the anodes intentionally to improve their corrosion rate in the plating solution. Thus, for example, nickel anodes may be cast with a controlled carbon, oxygen, or cobalt content to reduce passivity at higher current densities.

## INDUSTRIAL NEWS

"Registration picked up pace towards the end of the month, which augur well for the festive period ahead , and we remain focused on driving up consumer preference for our exciting range of vehicles while maintaining the health of our dealer network,"he added.

OEM	Sep 2024	Sep 2023	Growth
Maruti	144,962 units	150,812 units	-3.88%
Hyundai	51,101 unites	54,241 units	-5.79%
Mahindra	51,062 unites	41,267 units	23.74%
Tata	41,063 units	44,809 units	-8.36%
Toyota	23,802 units	22,168 units	-7.37%

### Classic Legends aim at higher sales in premium motorcycles segment

Classic Legends manufactures premium motorcycles in the 300 cc to 650 cc categories.

### Tata Motors may offer Battery-as-a-Service option to drive up electric vehicle sales: Sources

The BaaS model is expected to bring down the ex-showroom prices of its battery EVs by 25-30 percent, sources said.

### Strong monsoon boosts tractor sales by almost 15% in September 2024

FADA reported that sales for major brands like Mahindra, Swaraj, and John Deere increased year-on-year in September. However, on a month-on-month basis, sales saw a slight decline of nearly 3 percent from the 65,478 units sold in August.

### BYD India rolls out eMax 7 MPV at Rs 26.9 lakh

The new battery-powered Multi-Purpose Vehicle (MPV) comes in two variants - Superior and Premium - with 6- and 7-seater options for both.

### Ashok Leyland commences delivery of electric trucks to Billion Electric Mobility

Ashok Leyland bagged a contract to supply 180 electric trucks to Group Billion which would be operated in the Chennai-Bengaluru, Chennai-Vijayawada routes.

### Japan's Nissan to invest in auto tech firm ChargeScape

After the transaction, Nissan will pick up a 25% stake in ChargeScape, becoming an equal investor in the joint venture that is currently equally owned by BMW, Ford and Honda.

### Financial investment

The government allocated ₹19,100 crore to the Ministry of New and Renewable Energy, with ₹8,500 crore specifically for solar power projects.

## MDs CORNER



## CASE STUDY

### PROCESS SEQUENCE FOR ANTIQUE BRASS

#### FINISH

- Soak cleaning
- Electro cleaning
- Activation
- Cyanide copper
- Semi bright nickel
- Bright Nickel
- Cyanide dip
- Brass plating
- Activation
- Anthracite nickel
- Fine brushing
- Cleaning
- Activation
- Passivation
- Electrophoresis ( High Abrasion Resistant E Coat )
- Curing 180'C



## SAVE ENERGY, SAVE MONEY, SAVE NATION, SAVE THE PLANET

### Installation of High power solar PV Power Plant

#### SOLAR



#### SOLAR

