

INSIDER

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PSSPL
Wish You



PSSPL News

Festive Celebrations at PSSPL - Navratri & Dussehra



PSSPL celebrated the vibrant festivals of Navratri and Dussehra with great enthusiasm and devotion. Our empowered women staff led the celebrations, seeking the blessings of Goddess Durga and embodying the spirit of strength, grace, and positivity. The festivities concluded with a Dussehra Puja, symbolizing the victory of good over evil. The entire team came together to celebrate unity, culture, and the power of togetherness within the PSSPL family.

Product Focus : UVICLAD 612

UV-Curable Cathodic Electropaint for Temperature-Sensitive Conductive Substrates

UVICLAD 612 is a UV-curable, cathodically deposited electropaint system designed to deliver a clear, durable finish on temperature-sensitive, electrically conductive substrates such as metallized or plated plastics. With a versatile photoinitiator package, it can be cured using both LED and Mercury Vapour UV sources. Typical applications include electroplated plastics like nickel-plated ABS, vacuum metallised plastics, temperature-sensitive base metals, and complex assemblies that combine metallic and thermoplastic components-where traditional thermal curing would exceed the polymer's softening temperature.



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Active Involvement

PSSPL has showcased the advanced CLEARCLAD Series by ECOATING for superior protection and aesthetics of metal surfaces. Key offerings include Clearclad LTC, Clearclad LC 408, Clearclad DV200, and Clearclad LCBH, designed for both decorative and functional metal applications. These coatings provide excellent durability, high clarity, and enhanced protection. Available in a variety of finishes, they cater to diverse industrial requirements. Formulated with advanced coating technology, they ensure versatility across applications. The CLEARCLAD Series is fully compatible with standard pre-treated metal surfaces for optimal performance. Delivering reliability and long-lasting surface excellence.

Twitter handle:

psspl_surface

LinkedIn account:

Progressive Surface Systems Pvt Ltd.

ULTEC 3005 HPHF

ULTEC 3005 HPHF is a high-build, high-flow coating offering premium gloss, durability, and adjustable performance. It is designed to deliver both aesthetic appeal and reliable protection. Ideal for Eyewear.



ULTEC 3005

ULTEC 3005 is a non-yellowing, low-temperature cure coating offering decorative appeal, chemical resistance, and durability for costume jewellery. Ideal for costume jewellery.



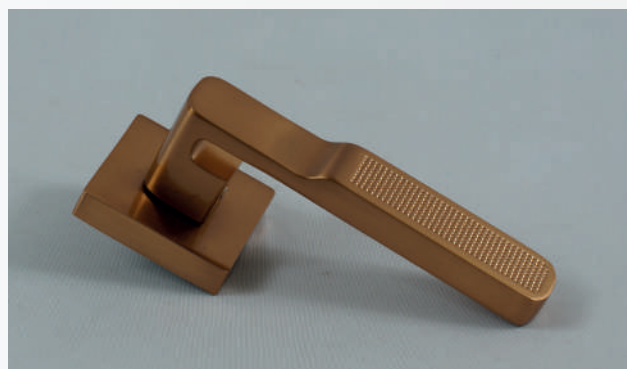
Shimaclad Peony

SHIMACLAD PEONY, a specialised ULTEC variant for jewellery, provides a clear, durable, non-yellowing finish that resists daily wear for lasting beauty and protection. It is formulated for easy application, ensuring a smooth, high-gloss coating every time.



ULTEC 3001 DV1102

ULTEC 3001 DV1102 ROSE GOLD EFFECT is a low-temperature cathodic electrophoretic coating giving a durable rose gold finish over brushed nickel, with strong resistance to perspiration, acids, and fragrances for lasting shine.



CLEARCLAD LC 430

LC430 is a non-yellowing, low-temperature cure cathodic lacquer designed for anti-tarnish protection. It offers excellent edge coverage for enhanced corrosion resistance and is suitable for use in the dye gold process. Ideal for lightning fixtures and giftware.

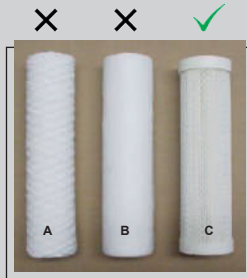


ULTEC 3009

ULTEC 3009, a low-build retarded-flow variant of ULTEC 3001, delivers smooth, even coatings on intricate jewellery, offering 5–10 micron thickness, enhanced wear, and chemical resistance with Zeta-clad 5000 Activator. Ideal for Door lock or lock bodies.

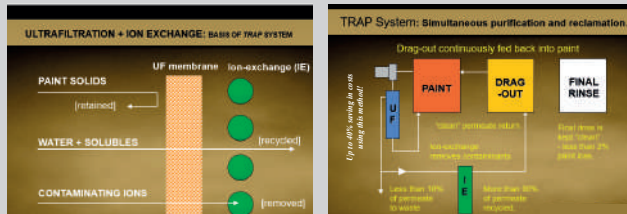


Maximising quality from electrocoat systems: -The role of filtration.

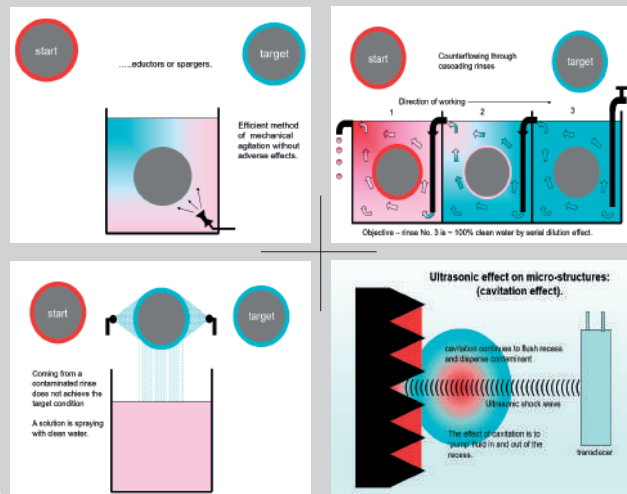


- Particle contamination affects electrocoat **appearance** and **performance**.
- **Pleated surface filters** are ideal for electrocoat baths.
- Continuously filter all **cleaning** and **rinse liquids**.
- Use **Ovencoat paint** inside ovens to capture airborne particles.
- Proper filtration ensures **smooth, defect-free finishes** and consistent quality.

CLEARCLAD TRAP ION-EXCHANGE CARTRIDGE



Managed Energetic Rinsing in Aqueous Surface Finishing



Physical property of ULTEC 3005

Property	Specification / Result
Cure Schedule	130°C for 30 minutes (metal temperature) unless otherwise stated
Coating Thickness	10 – 25 microns (depending on application specification)
Pencil Hardness (ASTM D3363)	5 – 6H at 3 Newtons (gauge method)
Abrasion Resistance (Falling Sand, ASTM D968)	Coefficient = 25 litres/mil with Ottawa sand
Abrasion Resistance (Rubbing with Skin Simulant)	20,000 strokes with leather at 10N force — No loss of gloss or removal of coating
Adhesion (ISO 2409)	Classification 1 max on applicable substrates at normal thickness
Scratch Resistance (Erichsen 318)	1.5 Newtons to mar, 15 Newtons to gouge
Acetone Rub Test for Cure	Pass 1000 double rubs (130°C for 30 minutes metal temperature)
Resistance to Perspiration (ANSI/BHMA)	Minimum 4 × 15-minute cycles (depending on cure schedule and thickness)
Salt Spray Resistance (ASTM B117)	200 – 2000 hours or more (depending on substrate and pretreatment)
Ultraviolet Light Resistance (ISO 11507)	UVA340: 1250 kJ/m ² with no significant loss of decorative aspect. Mass loss < 5 mg/dm ² (Note: applicable to clear resin systems only; for coloured systems, refer to LVH Technical Department)

Resistance to chemicals

Industrial Chemicals	Household / Personal Care / Culinary
Nitric Acid 10%	Domestic Bleach 100%
Hydrochloric Acid 10%	Toilet Soap
Sulphuric Acid 10%	'Old Spice' After-shave
Phosphoric Acid 10%	'Vosene' Hair Shampoo
Acetic Acid 10%	'Betadine' Iodine Skin Cleanser
Lactic Acid 10%	Lipstick
Formic Acid 10%	Eye - liner Pencil
Sodium Hydroxide 10%	Fruit Juices
Ammonia 5%	Beetroot Juice
Hydrogen Peroxide 6%	Tomato Puree
Lubricating Oils	English Mustard
Gasoline	Tabasco Sauce
Diesel Fuel	Turmeric

MDs CORNER



LECTRAFIN

Electrophoretic processes combining decoration with protection for base metals, electroplating, metallization and other electrically conductive material

UNIQUE COLOURING CAPABILITIES BEYOND PLATING OR PAINTING ALONE

LONG FINISH LIFE FROM COST-EFFECTIVE REGULATORY COMPLIANT PROCESS

FINISH AVAILABLE:

1. Clear for lacquering coloured metals.
2. Traditional metal effects (brass, old, bronze etc.).
3. Innovative & bespoke "fashion" colours.
3. Glossy – satin – matt.

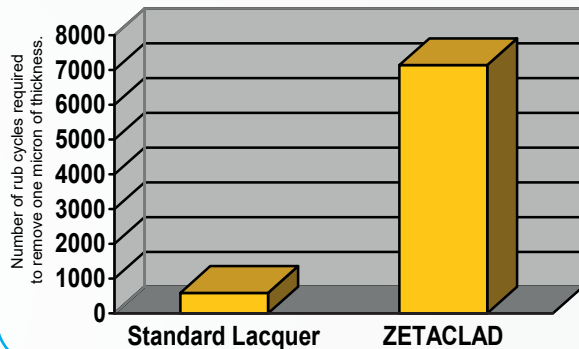
ZETACLAD = HIGH ABRASION ECOAT

ZETACLAD 5000 BASE

ZETACLAD 5000 IS DESIGNED FOR APPLICATIONS IN **DOOR & WINDOW HARDWARE, SPECTACLE FRAMES AND PLUMBING FIXTURES.**

THE **NANOCOMPOSITE MODIFICATION** PROVIDES EXCEPTIONAL **MAR, SCRATCH AND WEAR RESISTANCE**, MAKING IT FAR MORE **VERSATILE AND DURABLE** THAN CONVENTIONAL ORGANIC COATINGS.

THE **ENHANCED PHYSICAL RESISTANCE** ENABLES ITS USE IN DEMANDING APPLICATIONS **PREVIOUSLY UNSUITABLE FOR STANDARD ELECTRO-COATS.**



ZETACLAD BASE 5000 DV1096D DARK GUNMETAL

- High gloss dark gunmetal finish designed for metalspectacle frames.
- Cathodic electrophoretic coating based on ZETACLAD 5000 resin system.
- Enhanced hardness, scratch, and wear resistance with ZETACLAD 5000 Activator.
- Complies with ISO 12870:2016 standards for spectacle frame coatings.



ZETACLAD 5000 BASE DV1096E LIGHT GUNMETAL

- A cathodic electrophoretic process producing a high-gloss light gunmetal effect.
- It is primarily designed for application onto metal spectacle frames.
- ZETACLAD 5000 with Activator boosts hardness, durability, and aesthetics.
- Coating performance complies with ISO12870:2016 when applied correctly.



ZETACLAD 5000 BASE DV1096A BLACK

- High gloss opaque black finish specially developed for metal spectacle frames.
- Cathodic electrophoretic coating formulated on the ZETACLAD 5000 resin
- With ZETACLAD 5000 Activator, hardness, scratch, wear resistance improve.
- Meets ISO 12870:2016 standards for spectacle frame coating performance.