

LACQUER PROCESS





- High Clarity, Stable Polymeric Cathodic Electrophoretic Lacquer Process for Clear Bright coatings
 - Suitable over polished base metals or plated deposits of most metals to Protect, Enhance and Sustain.
- High wear resistance, Rub test performance and SST life
- Can replace expensive PU Coatings where high rub test is the norm.
- Can be applied as a Clear coat or as Colour coats
- Stable coating without yellowing and highly suitable over polished or plated Silver articles.
 - Colour shades such as 24K Gold, Brass, Copper, Antique finishes, Black, Blue and several others are possible.



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FEATURES AND BENEFITS

CONSOL POLYMERIC - 055

High Clarity Polymeric Cathodic Electrophoretic Lacquer Process for clear Bright Coating with high wear and rub test performance.

- A Stable, Polymeric, well proven cathodic electrophoretic lacquering process suitable for use over polished base metals or plated deposits of most metals to Protect, Enhance and Sustain.
- Correctly Cured Lacquer coating has high gloss, good clarity, free from orange peel, excellent hardness, more durability, higher solvent resistance and wear resistance.
- Typical applications include jewelry, giftware, hardware, lamps, consumer durables, door handles. For high quality decorative finishes requiring service protection.
- Accepts Consol dyes for colored deposits and is the norm for high performance finish.
- User friendly processing with wide operating conditions, enables process to run smoothly and trouble free.

Solid Content	-	7 – 8 %
Bath Solvent	-	2 – 3 %
рН	-	4.8 – 5.2
Temperature		$24^{\circ} - 26^{\circ} \text{ C.}$
Voltage applied	-	20 – 90 V.
Anode	-	316 Grade SS.
Curing	-	140 – 155°C & 25 Min.

Performance test results on brass panel 10 – 12 microns of coating, cured at 170°C for 30 min.

Test	Standard	Performance Result
Corro <mark>sion Resista</mark> nce JIS H – 8617	400 Hrs in 5% Neutral salt spray	Passed
	240 Hrs 5% NaOH soln.	Passed
	120 Hrs 5% H ₂ SO ₄ Soln.	Passed
Artificial Perspiration Test	ASTM D 2204	Passed
Lactic Acid Test	20 HRS	Passed
Hardne <mark>ss</mark>	Pencil Mitsubishi	Passed
	Hi Uni Pencil 4 H	
Bend	JIS K 5400 6 16 180 ⁰ On 2	Passed
	mm Steel Bar	
Adhesion	1 mm check Board – Apply &	Passed
	Remove Scotch Tape – Random	
Erickson Test – Solvent Resistance		
Xylene	200 HRS No. Lift Off	Passed
Toluene	200 HRS No. Lift Off	Passed
Cass Test	168 Hrs	Passed
SO ₂ Gas Test	100 HRS No. Corrosion	Passed
Weathering Test JIS K 5400 6 17	500 HR Open Exposure	Passed
Porosity Test	MS Panel With 10 Micron	
	Coating DIP In 10% CuSO ₄ Soln.,	Passed
	@ 25 °C 22 Min – Pores	
	Less Than 1 Per SQ. CM	
UV Loss	Less Than 2% Thru 10 Micron	Passed
	Film	
Impact Resistance	500 gms Steel Ball Free Fall 50	Passed
	cms On MS Panel Flat Mounted $\boldsymbol{\phi}$	
	0.5 Inch Passed. No Crack.	
Rub Test	MIBK. 750 Double RUBS Manual	Passed
	No Erosion. No Loss in Thickness	

Attention: This sheet is only meant to provide Features and Benefits of the process mentioned. For detailed Usage, Please refer the product Technical Data Sheet. For Safety, handling and Chemical information please refer the Safety Data Sheet. These can be provided through a *Consolidated Metal Finishing Pvt. Ltd.* representatives or requesting us for the same by email.