

PLATING RACK PLASTISOLS – TECHNICAL PRESENTATION

The personnel at Lakeside Polymer Services have been supplying plating rack plastisol and primers systems for in excess of 50 years. Plating rack failure can be caused by a number of issues. A major contributor is the shrinkage and associated cracking of the vinyl film accompanied by the failure of the vinyl/primer/metal adhesive bond. During the past 6 years our development team has conducted numerous experiments to determine the failure mode in our attempt to improve plating rack longevity.

Lakeside Polymer has developed a new plating rack plastisol and primer system that out performs traditional plastisol and primer systems. In our lab trials, Lakeside Polymer has been able to extend the functional life of a plating rack by a factor of four. The following data compares the new plastisol and primer systems vs the current/typical plastisol and primer systems on various metal substrates and the impact on adhesion when aged in concentrated acid.

Since 2015, the new plastisol and primer systems have been tested by many end-users and continues to gain acceptance in the market place. We have observed that the new technology plastisol has good compatibility with current plastisol and can be incorporated easily into mix tanks. When switching to the new technology plastisol, Lakeside Polymer will work with customer’s capability and current material to ensure the transition is seamless. Lakeside Polymer has the ability to custom formulate the plastisol and primer system for the end-user. Please contact Lakeside Polymer directly to see how we can meet your specific needs.

Plating Rack Plastisols – 2015 data

Material	Primer	Plastisol	Initial Adhesion	Acid 7 Days	Acid 13 Days	Acid 21 Days
Copper	New Technology	New Technology	4	4	4	0
Copper	Current Typical Tech.	Current Typical Tech.	4	0	--	--
Carbon Steel	New Technology	New Technology	4	4	4	4
Carbon Steel	Current Typical Tech.	Current Typical Tech.	4	4	0	--
Stainless Steel	New Technology	New Technology	4	4	3	0-1
Stainless Steel	Current Typical Tech.	Current Typical Tech.	4	0	--	--
Titanium	New Technology	New Technology	4	4	3	2-3
Titanium	Current Typical Tech.	Current Typical Tech.	4	0	--	--
			4 = Excellent Adhesion , 0 = No Adhesion			

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