



THE ZINC PLATING EXPERTS



Columbia Chemical
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E-NEWS

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New Zinc Phosphate Coating Products Outlast Competition

The Columbia Chemical line of phosphate coating products was recently field tested at American Metal Coatings in Cleveland, Ohio, which processes over 600 million parts annually. COLPHOS ZN 35 Phosphate for Heavy Coatings obtained three times the life of a competitive process. Salt spray testing on our COLPHOS OIL 20 also provided a higher level of salt spray protection at a lower cost.



COLPHOS ZN 35

What is behind the COLPHOS ZN 35 edge? COLPHOS ZN 35 is a liquid, immersion zinc phosphate used to produce fine grain crystalline heavyweight coatings on steel surfaces, while generating minimal sludge. The process provides excellent absorbing properties for supplemental coatings such as oil or waxes. Not only is COLPHOS ZN 35 suitable for coating weights of 1000 – 5000 mg/ft², it is also ideal for pre-paint treatment and in forming operations. COLPHOS ZN 35 enables platers to meet the requirements of ASTM F1137, MIL-DTL-16232G TYPE Z and A-A59267, when properly applied.

COLPHOS OIL 20 is a water emulsify-able, alkaline rust preventative for ferrous surfaces. Salt spray protection of over 200 hours is achievable when COLPHOS OIL 20 is properly applied and cured over a heavy zinc phosphate, such as COLPHOS ZN 35.

Log onto www.columbiachemical.com for detailed technical data on our COLPHOS product line, and start saving money on your processes today.

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See photos of our zinc experts in action, technical tips and other news.



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News From the Technical Department

Salt Spray Testing and Corrosion Protection

Alkaline Cyanide-Free Zinc Versus Acid Chloride Zinc

By Rick Holland, V.P. Technology, Columbia Chemical Corp.

Although somewhat of a mystery, it has long been observed in many instances that acid chloride zinc provides better corrosion protection than alkaline cyanide-free zinc when passivated with any of the new high-performance trivalent chromates. What may not be as widely recognized, however, is that the corrosion characteristics of COLZINC® ACF-II Alkaline Cyanide-Free Brightener replicate those of acid chloride zinc, due to its unique zinc deposit structure.

The History

The difference in corrosion protection was most evident in the early and mid-2000's, when the End-of-Life Vehicle (ELV) started ramping up and zinc platers transitioned toward trivalent (hex-free) chromates and away from hazardous hexavalent chromates. With the onslaught of new automotive specifications and the requirement for trivalent chromated parts to be Production Part Approval Process (PPAP) tested, salt spray testing results and all the subsequent data became highly scrutinized.

Zinc platers clearly saw a significant drop in salt spray hours between parts plated in alkaline cyanide-free baths vs. acid chloride zinc baths processed in one of the new high-performance trivalent chromates. To make matters worse, platers not only had to ... [click here](#) to read white paper or go to <http://www.columbiachemical.com/literature.htm>.

Meet the Zinc Plating Experts



Chad Murphy
Technical Sales
Representative

Chad Murphy *Technical Sales Representative*

Columbia Chemical has named Chad Murphy as Technical Sales Representative. Chad joins Columbia Chemical with more than 17 years of experience in the automotive plating industry and will focus on business development in the Michigan and Northern Indiana region.

Prior to joining Columbia, Chad worked at a global tier one supplier, with extensive experience as a plating chemist along with chemical and environmental management. A graduate of Grand Valley State University, he holds a Bachelor's degree in Biology. His professional affiliations include the National Association for Surface Finishing and the Alliance of Hazardous Materials Professionals.

Tom Alderson, Sales Manager Americas, comments, "I have had the opportunity to get to know Chad through the Metal Finishing industry over the past several years. His knowledge and understanding of our business will make him a valued addition to the Columbia Chemical technical sales team."

When not assisting customers, Chad spends time with wife of 16 years, Maggie, and their three children, Patrick, 15; George, 13; and Mary Kate, 11. Chad is an avid outdoorsman with hobbies that include hunting, fishing and gardening. Contact Chad at 330/225-3200 Ext. 151 or chad.murphy@columbiachemical.com.

Rick Holland Retires; Mark Schario Appointed to Vice President, Technologies

Long time employee Rick Holland has retired from Columbia Chemical Corporation. He began his nearly 33 year career at the company back in 1979, when he started in production and shipping & receiving while still in school. Holland's duties expanded as the company grew, and his formal education and career path took him to the technology side where he made his way up through the ranks. He functioned as the Vice President of Technology and served as a company officer for many years before retiring.

"Rick's work here has helped make the company what it is today, and has positioned us for growth and further success moving forward", comments Brett Larick, President.

Rick looks forward to traveling with his wife, Kelley, and lending a hand to her growing business. He will also now have more time for involvement in several committees at his church. "One thing I'm particularly looking forward to is volunteering for a program that provides assistance to the community's elderly citizens", Rick mentioned.

Columbia chemical has appointed Mark Schario as Vice President, Technologies, effective immediately. Rick Holland and Mark Schario worked together over the past several months to ensure a smooth and seamless transition.

Schario brings more than 30 years of industry experience, specializing in automotive and aerospace finishing. He now oversees the company's entire technology section, which includes research & development, technical support, and quality control. Additionally, he will continue to function as the company's top liaison to the automobile industry, and will continue to serve as committee chairman to ASTM B08 on Metallic and Inorganic Coatings. He is a member of the National Association for Surface Finishing and has earned the industry designation of CEF/Certified Electroplater-Finisher.



Rick Holland



Mark Schario
Vice President,
Technologies



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