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Warren Buffet



Canadian Paint and Coatings Association

Association canadienne de l'industrie de la peinture et du revêtement

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CPCA's cornerstone event provides insights on industry advances in R&D and technology, business challenges, and the economic outlook ahead.



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PRESIDENT'S MESSAGE



There are several critical issues being addressed by CPCA for the paint, coatings, adhesives and sealants (CASE) industry in Canada. These include:

1. recent decisions regulating biocides used in the preservation of sustainable water-based coatings;
2. proposed regulations for much stricter VOC limits in Architectural and Industrial Maintenance (AIM) coatings, which represents 60% of the volume of coatings sold in Canada. Current VOC limits in architectural coatings led to a 93% reduction in VOC emissions (42 kilotonnes) over the past 15 years in Canada; and
3. impacts from new regulations flowing from amendments to Bill S-5 updating the *Canadian Environmental Protection Act (CEPA)*.

The three new regulatory initiatives noted above signal a new regulatory 'tipping point' as they will impact the industry significantly in the coming months and years. However, the fact that items 2) and 3) are still at the 'proposed' stage may indicate a willingness by the Federal Government to reconsider the potential for negative 'impacts' on industry versus the minimal 'benefits' realized. **That is the definition of 'regulatory efficiency' followed by previous Governments in Canada.**

PRESERVING MORE SUSTAINABLE WATER-BASED PAINT: A cluster of **biocide preservatives for paint**, regulated by the Pest Management Regulatory Agency (PMRA), were re-evaluated over the past two years and final decisions taken to ban several and severely restrict effective use rates for the others and thus still a ban. These biocides are used for preserving paint and coatings in the can, in storage, during distribution, at retail and on the substrate or surfaces to which they are applied. The data and risk assessment methodology on which those decisions were taken is still unclear and not based on 'all' the available data. For example, the same available data, and likely more, was used by the US EPA to assess these very same biocides. The result was **no** restrictions were imposed in the United States. In fact, the US EPA still permits the *same* use levels for these very *same* active ingredients in the United States. When asked about the discrepancy industry is told it is a 'matter of policy' or a matter of not using the toxicity reference values as a starting point in Canada. One might conclude that it is not just a matter of science. This means the Canadian CASE industry will **not** be aligned with its largest trading partner from which 60% of all paint products sold in Canada are now imported.

To be clear, these lower use rates for critical preservative ingredients are essential in controlling microbial contamination in water-based products. Furthermore, these rates will also have negative impacts on treated articles in other products imported into Canada, from other countries. This reduces product performance with more product spoilage from less effective preservation. Potential alternative biocides in other countries are not approved in Canada and/or not on the Domestic Substances List, thus not available. This means there will be reduced microbial control for the more sustainable and lower VOC emitting water-based paint, thus reducing consumer choice and contributing to inflationary pressures and lost sales. Ultimately in means less trade between Canada and the United States.

NEW LOWER VOC LIMITS: The **newly proposed VOC limits for the 49 architectural coatings categories are also problematic.** The consultation and surveys conducted leading up to the proposed lower VOC limits, specifically related to adopting the CARB limits in Canada, noted the new limits would reduce VOC emissions by 7 kilotonnes and would cost the coatings industry \$15 million in total. Thus, the cost-benefit scenario seemed promising. However, we now know such an estimate was hugely **under-stated**. Recent calculations by CPCA on behalf of the coatings industry in Canada revealed that the expected benefit of a 7 kilotonne reduction in emissions was highly **over-stated**. One obvious example is the need for more frequent re-painting required on surfaces due to

key product categories being abandoned due to the lack of product performance per stringent technical specifications in Canada and by consumers broadly speaking. The obvious reason those targets are difficult for some categories, especially for exterior coatings in a harsh Canadian climate, is there is little room left for VOC emissions reduction in both solvent-based and water-based coating formulations, which already deliver 93% reduction in VOC emissions.

A case in point relates to several products in **a small number of categories** for **one company** for a VOC reduction limit of 250 kg/L down from 500 kg/L. Cutting those limits in half would require a significant investment in R&D to reformulate, field testing product performance over several years, new production protocols, recurring work related to new product development and processes, etc. **Those new approximate costs for 'one' company would be estimated at a minimum of \$17 million.** This is for several products only and not the 49 product categories targeted. The negative impact for just 'one' company **exceeds the government's 'estimated' total cost of \$15 million for all categories.**

Extrapolating one company's estimate puts the total amount for these few categories at \$50-100 million or more. There are still 49 categories to be considered in terms of cost versus benefit, some can be more easily dealt with than others. **Thus, the estimated \$15 million in total costs for the proposed new VOC regulation in all categories is highly under-stated.**

NEW CEPA AMENDMENTS: Then we come to the impacts that could evolve from Bill S-5 amending existing regulations under CEPA, which regulates chemical assessment and risk management in Canada. The coatings industry is highly impacted in those assessments. Many of the hastily proposed amendments added by the unelected Senate were thankfully removed by the House of Commons Environment Committee. If the Bill is passed in its current form by the House of Commons, it could bring some relief for industry generally. However, the devil is always in the details in terms of the administration and/or interpretation of several clauses in the regulations. One of those clauses is the 'watch-list' for chemicals in products, which only have the *"potential to become harmful in future,"* not harmful now.

Many industry sectors have noted the 'watch-list' could cover a vast array of chemicals in a huge array of products. It will also be at the Minister's full discretion which ones are put on the list. And, the Minister makes that decision based on what members of civil society bring forward to him and it is not yet clear on what basis that political decision will be made. Many have suggested this could become a long list of chemicals that are **already 'regulated' for 'safe' use in many products in Canada.** Again, this was never part of any 'regulatory efficiency' test related to risk management of anything, including chemical substances.

These 'watch-list' chemicals are of 'no concern' today in terms of human health or the environment. They are also **not** prioritized for assessment today, nor planned to be assessed in the foreseeable future and may never be assessed. Yet, they can be arbitrarily put on a watch-list, thus inevitably viewed as chemicals of concern because the Minister of Environment put them on the list. Therefore, it is logical to conclude that these safe, regulated substances will very likely be viewed as a 'bad' list of substances creating concern for the many products containing them. The question is: how many of those 'watch-list' products will be left on the shelf by consumers? No amount of advertising the benefits of such products containing 'watch-list' chemicals will win over fatalistic comments attributed to the safe products containing them. They will view them as 'potentially toxic' as per the definition of the list. Yet, the chemical was never on the Government's own list of chemical priorities for assessment and regulation in the past, today, or in future.

There are other concerns that 'could' become problematic, which includes the "Right to a Healthy Environment" in Bill S-5, which is laudable and many in industry support it. But

becomes: Will more regulation now even well-intended, not based on the usual, rigorous scientific data achieve the intended outcomes related human health and the environment, or the economic growth Canada seeks?

REGULATORY EFFICIENCY: A critical challenge for new regulations is the need to have fair, evidenced-based regulations that seek to align with our largest trading partners. Canada's *Regulation Efficiency Act* requires a regulatory impact test be conducted and the application of a 'valid' risk-assessment to address three simple questions:

1. Is it affordable?
2. Is it acceptable?
3. Will it work?

There are even more concerns when those regulations are going beyond the point where products can actually remain in commerce. At a certain point with active ingredients in products, the product will cease to exist without the efficacy provided by the active ingredient. Yes, more biobased products are being pursued and the coatings industry has come a long way with new R&D initiatives and innovative solutions leading to more sustainably sourced products and a strong commitment to achieving net-zero goals. However, more conventional ingredients need to remain in formulations until then, while they continue delivering health and environmental and economic benefits such as in the case of the 42-kilotonne reduction in VOC emissions in water-based coatings. Leftover waste paint is also recycled via an Extended Producer Responsibility (EPR) approach across Canada, paid for by manufacturers (100%). Last year more than 20 million kilograms of paint were recycled in Canada by paint manufacturers, enough to paint 500,000 homes.

The bottom line is these very positive outcomes achieved in the coatings industry in Canada over many years may now be in the proverbial "Catch-22" position: move forward and remove necessary active ingredients in products to a point where products are no longer functional or in commerce, and 'potentially' achieve more environmental benefits for Canada at a price to be determined.

Gary LeRoux
President & CEO



Canadian Paint
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Members We Want Your Feedback!

*CPCA's Member Survey is Live!
All answers and comments are
completely confidential. Take
the short survey and tell CPCA
how we can better serve YOU!*



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CPCA Members We Want Your Feedback!

CPCA has recently partnered with Flex Survey an independent survey company to conduct a **member satisfaction survey**. The responses will be included in the report for CPCA by

members.

This survey will take less than 10 minutes to complete. Please keep your eye out for reminders that will come directly to your inbox on **Friday March 31**, and the **first week of April**. Thank you for your attention.

For more information or if you have any questions about this survey **please contact Melanie Di Tullio, Director, Graphic Design & Digital Communications.**





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Functional Coatings are the Future!

Coatings are *reliable, responsible, and recyclable*. They are also key to *protecting, preserving and providing* for our future. Contact CPCA to share how your coatings product is helping to build back better.

Share my story

ADVOCACY REPORT



CPCA Advocacy Efforts Supporting a Stronger Canadian Coatings Industry

- Environmentl Committee Concludes Debate on Bill S-5 and Sent to the House of Commons for Third and Final Reading
- CPCA Comments on Health Canada's Intent to Remove the Consumer Product Exclusion from the Hazardous Products Act
- CPCA Coatings and Adhesives Working Group (CAWG) to Meet with Canada's Pest Management Regulatory Agency (PMRA)
- CPCA Members Informed of Key Changes to Final HPR Amendments Adopting GHS Rev 7 and Parts of Rev 8
- Canadian Manufacturers Call for Urgent Action in Budget 2023
- WCC Held Annual Meeting in Istanbul on March 13-14, 2023

Ensuring Full Compliance with Canadian Regulations

For more extensive details and actions on all the issues please read the comprehensive bi-monthly **Regulatory Radar** and/or consult the **Canada CoatingsHUB** to search for any issue of interest. The primary goal of the Regulatory Radar and the Canada CoatingsHUB is to ensure **full industry compliance** with all regulations in Canada.

Bill S-5 Now at Third Reading in the House of Commons and on Its Way to Royal Assent in Senate

CPCA followed closely the Environment committee debate on Bill S-5, which will lead to CEPA Reform in Canada. Earlier this month, Bill S-5 passed debate by the House 'ENVI' Committee and the final text was referred back to the House of Commons for Third

see that some parts of debate in the ENVI Committee resulted in re-wording problematic amendments introduced by the Senate last year. Following the final CEPA Amendment and over the next two years, CPCA will continue to engage with government officials on this extremely important file for industry. Indeed, officials will have significant regulatory work left to do in order to implement the approved changes in CEPA (i.e. such as shaping the next phase of CMP and reflecting needed modifications to the current process, further defining and implementing the right to a healthy environment, developing the protocol for the Watch List, further responding to the requirements for identifying suitable alternative and cumulative impact assessment, etc.). Many more consultations with stakeholders are expected in the months ahead.

CPCA believes the majority of 'Government amendments' to CEPA will ensure greater safety for both human health and the environment when passed by the House of Commons at final reading.

CPCA Comments on Health Canada's Intent to Remove the Consumer Product Exclusion from the Hazardous Products Act

On December 15, 2022, Health Canada published a Notice of Intent to Remove the Consumer Product Exclusion (CPE) from the Hazardous Products Act extending the related comment period to March 16, 2023. CPCA and other industry submissions were generally supportive of Health Canada's proposal to remove the CPE exclusion from the HPA, while requiring manufacturers/suppliers to provide an SDS upon request from any downstream employers using 'hazardous' consumer products in their workplace. The full WHMIS labelling of consumer products will not be required under the new process. The CPE is an issue that has been debated for several years among industry, labour organizations and provincial authorities without reaching a consensus. CPCA has actively participated in these debates and has always been in favour of either the status quo or a solution that aligns with OSHA in the US where SDSs are already provided at the request of downstream employers using consumer products in the workplace. Thus the current NOI is a hybrid 'Canadianized' approach that will minimize the impact of unfounded labour claims related to 'hazardous' consumer products used in the workplace.

CPCA appreciates all the efforts made to date by Health Canada, in concert with labour and industry, to find a equitable and safe solution to the CPE issue, ensuring safety in the workplace and reduces administrative burdern for all at the same time.

CPCA Coatings and Adhesives Working Group (CAWG) to Meet with PMRA Officials

The CPCA Coatings and Adhesives Working Group is comprised of CPCA staff and member registrants and paint manufacturer technical experts, along with several representatives from the American Coatings Association (ACA) and American Chemistry Council (ACC). The CPCA/PMRA working group formally meets with PMRA officials to exchange technical information, including 'use' data to help improve PMRA's understanding of the impact of various evaluation or re-evaluation decisions on CASE registrants and manufacturers or 'users' of a very limited pool of registered biocides. The CPCA/PMRA CAWG will meet next month to specifically discuss transparency and predictability issues in the PMRA evaluation/re-evaluation processes and recent final decisions banning or severely restricting a cluster of paint biocides. An effort will also be made to improve the current alignment of PMRA with the US EPA approaches for pesticide review in terms of data, requirements, information sharing, and timelines. Lack of alignment on those critical points are also causing treated article issues in cross-border trade. The working group will also assess the development status and possible impact of the recent PMRA product stewardship initiative.

Continued collaboration on the critical issue of biocidal preservation ensures-no and low-VOC water-based products continue to remain in commerce in Canada with enhanced durability for the consumer and ensure overall sustainability.

GHS Rev 7 and Part of Rev 8

According to Health Canada, WHMIS 2015 will now be referred to as just “**WHMIS**”, and versions of the Hazardous Products Regulations will be distinguished with the terms “former” and “amended”. The deadline for compliance with the amended HPR is December 15, 2025. The most notable impacts of the transition from WHMIS 2015 to the amended WHMIS will be the adoption of a new physical hazard class, Chemicals Under Pressure, the adoption of a non-flammable aerosols hazard category, and new subcategories for flammable gases. Several revisions to the information elements on safety data sheets (SDS) and labels are required, including modifications to the required elements concerning the physical and chemical properties in section 9 of the SDS. New elements were introduced, such as boiling point, flammability, kinematic viscosity, density and relative density, relative vapour density and particle characteristics, while odours were removed (i.e. odour threshold, evaporation rate, vapour density and viscosity). The full breakdown of the changes and comparison with WHMIS 2015 is available from Health Canada.

All these efforts will ensure that the work of labour, industry and government ensure a safe workplace for all Canadians.

Canadian Manufacturers Call for Urgent Action in Budget 2023

CPCA and other members of the Canadian Manufacturing Coalition, a group of Canada’s leading manufacturing sector associations chaired by Canadian Manufacturers & Exporters (CME), recently called on the federal government to support the manufacturing industry in Budget 2023 with measures that will help attract and train workers, support investment, and accelerate the transition to net-zero production. In addition to implementing a comprehensive industrial strategy for Canada, members of the Coalition have outlined four priorities to be addressed in the March 28 budget, such as increasing industry pressure being related to chronic labour shortages, “Buy American” protectionism, declining investment, weak export performance, competition from the U.S. Inflation Reduction Act, and massive costs associated with net-zero transition.

CPCA believes addressing key issues impacting industry will create more direct foreign investment in Canada, help with improved productivity and support economic growth in Canada.

World Coatings Council (WCC) Held Annual Meeting in Istanbul, Turkey on March 13-14, 2023

The issues discussed at the recent March meeting related to the WCC sustainability report on current programs and future initiatives, plastics and microplastics; regulatory initiatives and current research; chemicals management and the EU Green Deal; biocides restrictions and regulatory development; and, review of supply chain traceability laws and PFAS restrictions. The WCC Secretariat provided information on UNEP’s Major Business group and Science Policy Panel, Lead Paint Alliance and the IMO. A joint WCC/BOSAD meeting was held on March 15th with over 150 industry and government representatives in attendance.

The WCC seeks to align common goals for a more sustainable coatings, adhesives, sealants and elastomers (CASE) industry, while harmonizing regulatory compliance requirements where possible and sharing best practices in manufacturing a wide range of products in 15 industry segments.

CPCA IN THE NEWS



CPCA Appoints Three New Board Members

At a recent meeting of the CPCA Board of Directors, Governance Committee Chair Steve Krönus announced the nomination of three new Board members: Roula Hanna of KRONUS worldwide, Lorama Groups Jake Jevric and Elizabeth Rice of AKZONOBEL. The nomination was unanimously approved by the Board and is effective immediately. Steve Veroba commented that, "The three new board members will proceed to the full membership for confirmation at the next Annual General Meeting." The new slate of board members will be formally approved by the membership at the next AGM to be held at [CPCA's Annual Conference](#) on May 24 & 25 at the Queen's Landing Hotel in Niagara-on-the-Lake.





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CPCA is a proud supporter of Tree Canada, providing annual donations on behalf of CPCA members, which contributes to reforestation efforts across Canada and helps reduce CO₂ in the air we all breathe.

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GREEN INITIATIVES

Did You Know?

Coatings have numerous applications for countless substrates on a wide range of manufactured products from automobiles to packaging to road markings. What's remarkable about the **environmental advances** in coatings is that they are **engineered for best-in-class performance** providing **protection and superior quality** to the countless finished goods we use every day. This means protection from degradation such as corrosion, abrasion, high or low temperatures, ultraviolet rays, moisture, and microbes. All of these enhance the life-cycle of valuable assets and **improves product stewardship and sustainability**.

California Research Alliance by BASF Activated 100 Projects to Address Sustainability Challenges

BASF and the [California Research Alliance](#) (CARA), a multidisciplinary research center, headed by the College of Chemistry at UC Berkeley, have led to 100 research projects with more than 10 universities since 2014. The research projects related to functional materials, catalysis, chemical synthesis, engineering processes, biosciences, formulations, and

alliance.

Lorama Group Inc. Introduces Industrial and In-Plant Colourants

The **Lorama Group** continues to develop innovative sustainable solutions with a new line of water-based and solvent-based in-plant and industrial colourants which are: ColourFal Zero® 950 (VOC-free), high-strength aqueous binder-free pigment dispersions without APEO additives, and ColourFal® Industrial 1044, with propylene glycol monomethyl ether acetate in an aldehyde resin vehicle that allows superior wetting and dispersing properties.

AkzoNobel Aerospace Coatings to Launch Aerofleet Coatings Management

This new digital, **data-driven service** will help airlines and other large operators tailor and optimize the coatings' replacement and maintenance schedule for individual aircraft within an airline fleet. An aircraft still tends to be taken out of service for maintenance every six or seven years without knowing if a repaint is needed. Aerofleet Coatings Management will capture the data from both manual inspections and drone-operated inspections, creating a database of every aircraft and detailing the history of the coatings used and flight path data which affect the integrity/longevity of the coating.

PPG ENVIROCRON Primeron Powder Primer Series Introduced for High-performance Corrosion Protection

Protective primers are the first line of defense to **protect metal surfaces from corrosion** and the most significant challenge in the metal coatings industry. The PPG Envirocron Primeron powder primer series expands the company's offering of designed solutions for durable protection against corrosion for metal substrates.

KRONOS 2190 TMP-free Reinvents this Universal Grade

KRONOS 2190 is the **first in a series of TiO2 pigments** created to avoid CMR substances such as Trimethylolpropane (TMP) as organic post-treatment. KRONOS 2190 TMP-free is a universal sulfate grade for a wide range of waterborne, solvent-based and powder coatings applications.

Arxada's President, Industrial Microbial Control, Interviewed by Coatings Word Regarding Trends

According to **Arxada**, we are at an interesting juncture in industrial microbial control for paints and coatings. On one side, progress in microbial control is becoming more challenging due to fast-changing and more stringent global directives, ecolabels, and 3rd party certifications. At the same time, companies are driving their sustainability mission and focusing on higher-performance biodegradable solutions that are easier and safer-to-use, while reducing our environmental footprint, energy consumption, and waste. Arxada is working closely with customers, regulators, academia, and the marketplace to develop sustainable products and solutions while delivering the quality, reliability, protection, and service life extension that paints and coatings end-users expect and need.

IPCC Synthesis Report Underscores Urgency of Taking Ambitious Climate Action Now for a Sustainable Future

The most recent Intergovernmental Panel on Climate Change's key message is that "rapid and far-reaching transitions across all sectors and systems are necessary to achieve deep and sustained emissions reductions and **secure a liveable and sustainable future for all.**"

MEMBER **RECOGNITION**



Clarivate maintains a list of organizations at the pinnacle of the global innovation landscape by measuring excellence focused on exceptional consistency and scale in innovativeness. Since Clarivate began presenting the award in 2011, **Dow has been recognized every year** under the Chemicals and Materials category.

Mapei and BASF Canada Honour International Day of Women and Girl in Science

To celebrate, the Mapei Corporate Office and a few plants reflected on the progress being made and giving equity a huge embrace. Meanwhile, BASF highlighted this day with some of the fantastic **Women in Science** that make up the BASF team and shared their advice for **young girls and women considering a career in STEM**.

Barentz Expands Market Acceleration Team

As part of its **North American Leadership Transition**, Barentz appointed Bryan Daniels as its **new market acceleration** group director.

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CANADIAN ECONOMY



Conference Board of Canada: 94 Percent Chance Canada Could Fall into a Recession within the Next 12 months

Plus 88 percent in the US and what happens in the U.S. **impacts our economy in a profound way**. According to CBoC, if a recession occurs, it will only be a mild one.

RBC: Canadian Economy Unlikely to Dodge a Downturn Despite Early-2023 Resilience

economy (+1.5% in the first part of 2024).

- Higher interest rates, and a larger pullback in economic activity, **will get inflation back under control** (+1.9% by the end of 2023).
- Unemployment rates should drift higher – to 6.8% from 5.0% currently, by early 2024.

Women in Manufacturing: An Untapped Talent Pool

Women are a **tremendous potential resource** to fill the talent gap in the manufacturing industry. This sector has been hit hard by the labour shortage, and there's no sign of that changing. Closing the gender gap should be a **key strategy for manufacturers** looking to address the talent shortage and prepare their factories for the future. See **Statistics Canada's figures on graduate women** in Canadian postsecondary (and university) graduates.

Trade Marks in the Metaverse

These virtual worlds are becoming increasingly **'branded'**, with companies creating spaces dominated by their brand's imagery and allowing users to view and purchase virtual products. A recent court verdict suggests that large brand owners can enforce rights infringed in the metaverse in certain circumstances but it also highlighted the true risks posed by infringing acts in the metaverse to owners of trade mark registrations that cover physical goods, but not their digital equivalents.

Manufacturing Trends

- **Growth Rates for Innovative New Materials to Exceed Those of Traditional Materials in the Next Several Years**
- **Harvard Business Review: The Number of Companies Appointing a Chief Sustainability Officer Has Grown Significantly over the Last Few Years**
- **Technologies to Improve Manufacturing Safety: Edge Computing, Digitization and Automation, Robotics and AI, Green Energy, and Digital Twins**

Climate Disclosure is Going Through a Regime Change, Be Prepared

Since the **Carbon Disclosure Project** (CDP) was founded, we have seen increasing pressure for information to help understand the financial impacts of those risks. Up until just recently, corporate climate action and related disclosures have been a near-total voluntary exercise. Standard-setters and reporting frameworks have proliferated. The Task Force on Climate-Related Financial Disclosures released recommendations in 2022, which were followed by 3,800+ companies in 99 countries. The International Sustainability Standards Board, which is created and founded by the IFRS, will set high-quality sustainability disclosure standards meeting investors' information needs. At the end of 2022, EU officially adopted the most wide-reaching reporting rules—the Corporate Sustainability Reporting Directive (CSRD)—which will stretch beyond EU borders.

Employers Trying to Lure Workers Back to the Office with a Strategy Dubbed "Office Peacocking"

Workspaces that incorporate the decor, style, and comfort more usually seen in the home are a more **inviting work environment** that "makes employees want to come back day after day" and "encourages productivity, collaboration, and innovation".



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Better regulations that may impact your product line.
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TECH INNOVATIONS



Conductive Polymer Coating Developed to Enable Long-Lasting Li-ion Batteries for EVs

Berkeley Lab scientists have developed a conductive polymer coating that could enable more stable and powerful lithium-ion batteries for electric vehicles (EV). This approach will make EV batteries more affordable and easy to manufacture.

<https://www.greencarcongress.com/2023/03/20230308-hospfm.html>

New Development of Anti-viral and Antibacterial Coatings Inactivating COVID-19 or S. Aureus

Anti-viral

- **University of Tokyo, Nippon Paint Discover Novel Proton-form Zeolite Anti-Viral Activity**
 The proton-form zeolites have an excellent inactivation effect against **influenza and COVID-19**.
- **Florida Researchers Receive Patent for COVID-Killing Nano-Coating**
It also combats the spread of Zika, SARS, parainfluenza, rhinovirus and vesicular stomatitis.

Antimicrobial

- **Ultra-transparent, Hard and Antibacterial Coating with Pendent Quaternary Pyridine Salt**
 This coating is a mix of a **cationic antibacterial polymer and polyacrylate emulsion** with negligible cytotoxicity that displays a much higher rate than the required antibacterial rate of Grade 1.
- **Durable Coatings for Antimicrobial Fabrics**
A new efficient and versatile approach allows the production of durable antimicrobial fabrics after 50 laundering cycles using silver nanoparticles.

Corrosion/Erosion Protective Coatings

This **new limewash absorbs CO₂** while creating a self-repairing barrier against erosion damage.

Smart Self-healing Polymeric Composite Coatings for Steel Corrosion Protection in the Oil and Gas Industry

Polymeric coatings modified with smart nano additives deliver autonomous corrosion protection solutions based on multilevel healing strategies for primers applied on piping steel networks exposed to marine environments.

Self-repairing Fluorescent Corrosion Protection Plastic as Paint

Researchers developed a plastic that could **greatly improve and simplify corrosion protection**. When mixed as paint and heated, it can be sprayed onto a surface to protect and repair any holes and cracks. It is ten times thinner than conventional agents. The polymer, Poly(phenylene methylene), can be completely removed, recycled, and reused with minimal material loss.

Novel Sustainable Protective Wood Coating

This paper presents eco-friendly biocarbon/tung oil coatings with hydrophobic and UV-shielding properties for outdoor wood substrates. **Coatings with 20% biocarbon** preserved most of their water repellence post-weathering.

Researchers to Use AI for Polymer Coatings Manufacturing

Artificial intelligence is being used to develop an advanced manufacturing platform for polymer coatings, which aims to replace traditional batch manufacturing with a more precise flow chemistry process. The switch would allow for better control of polymer properties and structures, reducing defects and improving overall quality.



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