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John F. Kennedy

PRESIDENT'S MESSAGE



November 2024

Regulatory Goals for 2025

NEW Year, NEW Challenges and NEW Opportunities

CPCA continues to move forward on regulatory issues of importance to the coatings industry and our members. We are now looking down the pipeline of regulatory changes being finalized and rolled out over the course of 2025 and beyond. Three key things to keep top of mind for all those who are following the regulatory proceedings closely in Canada or are directly impacted by them.

1. What's Good for the Goose is **NOT** Always Good for the Gander
2. Evidence-based Data + Sound Science = Fair Regulations
3. Regulation has Impacted Innovation and Productivity

What's Good for the Goose is NOT Always Good for the Gander

There's an old saying "*What's good for the goose is good for the gander,*" meaning if it's good enough for me, then it's good enough for you. As we saw in 2024, one could argue that was the stance many parliamentarians took with proposed legislative and regulatory changes, unfortunately. In 2023 we saw legal challenges of the Federal Government with bans and restrictions applied to industries without taking the time to evaluate peer-reviewed data or consulting industry experts focused on best practices benefiting industry,

challenges to the Federal Government in 2023 saw industry winning all or them outright even in the higher courts. Litigation trumps legislation when it reaches the point of 'no return' for businesses and thankfully 'litigation over regulation' helped save good paying jobs for Canadians.

Good public policy used to be the preoccupation of dedicated and highly educated public servants and a matter of some importance for Governments to get it right. Moreover, 'non-regulated' parties, often referred to as 'environmental non-governmental organizations' (ENGO) with opinions that are often not based on strong economic or scientific data, but on social or environmental concerns with little or no basis in reality, are winning the day. That has been proven many times. Yet we still hear unfounded concerns from them as a basis for new regulation especially with respect to the CASE sector on excessive labelling and other matters related to supply chain transparency. And, when those views become the dominant perspective of policy makers there are serious problems for Canadian innovation and productivity, which has been widely reported. That was the foundation for the challenges of the federal Government in 2022-2023 in manipulating existing environmental legislation without a legitimate basis despite caution from industry and their legal advisors. That was the case in designating manufactured plastic 'products' be regulated as toxic when only 'substances' could be treated as such.

However, it seems that some lessons were learned as there were no legal challenges of the federal Government in 2024, as yet. But the prospect of more challenges is hinted at almost weekly in Canada's national newspaper. This is happening at the same time as Canada's economy is getting worse while others are thriving. There are regular well researched editorials on why the current Government must change course and why they are last in political polling. Changes to public policy and the regulations flowing from them can only be done in collaboration with 'regulated parties', that is, those actually impacted by them. These are businesses underpinning Canada's economy, creating jobs and growing the country's productivity. Today Canada's productivity is the lowest it has been in decades, about half that of the United States.

As we watch regulatory policies unfold over the course of 2025, CPCA will continue to provide insights and caution policy makers on the risks associated with misguided approaches that are simply not feasible and without strong data, if any. If public policy continues to be politicized it will more often than not be bad policy as many continue to argue.

Evidence-based Data + Sound Science = Fair Regulations

CPCA's mission is to advocate on behalf of our membership and industry for fair regulatory development that is evidence-based, rooted in science and takes into consideration impacts on **industry**, the **environment**, and the **economy**. We believe true sustainability can only be achieved when all pillars are fully considered shaping regulatory policy. For several years many have said Canada's regulatory landscape has now reached a tipping point and - as many allied associations have noted - the outcomes for industry and taxpayers have not been positive for many.

For the CASE industry we have seen this play out with proposed new regulations for higher VOC limits in architectural paint products rendering many unfeasible if they proceed in 2025; increasing challenges for fair risk-based assessment of chemicals in commerce; bans and restrictions for critical ingredients to preserve many valuable CASE products used every day to enhance the value across multiple industries representing 70 percent of Canada's GDP; unnecessary red tape for countless supply chain requirements making movement of goods costly or impossible; odd new rules for something called 'environmental racism' no one really understands or can clearly explain, even Parliamentarians; a new 'Right to a Healthy Environment' that legal minds already agree has no basis in administrative law and if applied to regulations will be challenged in court; and much more.

Canadian Regulation Killing Innovation and Productivity

Last, but certainly not least, CPCA will be on the frontlines in concert with like-minded groups pushing for greater regulatory alignment and fair regulatory practices that remove bureaucratic red tape, administrative burden and unnecessary redundancies. In fact, that is what the federal Government's own "Cabinet Directive on Regulations" require as does the Government's recent commitment to increasing regulatory alignment with the United States under the Canada-United States Regulatory Cooperation Council. If there is not more and better innovation in Canada without unfair regulatory red tape Canada's global position will fall even further than its current place of 26 out of 37 OECD countries. We must do better!

Stay Current with CPCA

If you would like more insight on these and other matters in our industry and industry generally, you can subscribe to our monthly **Prime Time Newsletter**, join our **LinkedIn Community** or better still, if you are in the industry become a member and get access to the only digital regulatory database for the CASE industry in Canada, the **Canada CoatingsHUB** and also receive the monthly **Regulatory Radar** for 'members only.' **Become a part of the solution!**

Access to these will ensure you are current on chemical compliance in Canada.

Gary LeRoux

President & CEO



& Sip
Savour 

Give a little
Magic this
Holiday
Season



SickKids

CPCA Board of Directors Christmas Luncheon

December 4, 2024, Noon - 3:00 p.m.

Toronto Airport Double Tree Hotel by Hilton
5444 Dixie Rd, Mississauga, ON

**All funds raised will be generously matched dollar for dollar
by CPCA in support of SickKids and CHEO.**

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CPCA IN THE NEWS



Existential Threats from Canadian Regulations

CPCA is addressing several critical issues in Canada's paint, coatings, adhesives, and sealants (CASE) industry. **A crucial 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?



Registration for the 2025 World Coatings Summit is Now Open!

Registration is now open for the **2025 World Coatings Summit**, which will be held Jan. 15 – 17 at the Andaz Singapore. Hosted since 2003 by the World Coatings Council in partnership with Vincentz Network, the summit has evolved into the most sought-after gathering of industry executives and leadership as a forum for addressing topics ranging from economic and market trends to business strategy, sustainability, and new technology. The 2025 Coatings Summit already boasts a lineup of distinguished speakers from around the globe and the global industry's largest companies.

INSIGHT

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ADVOCACY REPORT



CPCA Advocacy Efforts Supporting a Stronger Canadian Coatings Industry

- CPCA Closely Monitoring Plastics Pollution Treaty Progress (INC-5) to End on December 1
- CPCA Gathered Members' Input on a Consultation to Add Certain PFAS to the NPRI
- CPCA Presented at WHPP Multi-Stakeholder Workshop Virtual Meeting on November 7, 2024
- Members Provided with Government's Analysis of Key Variances Between Canada's and US Implementation Approach of GHS Revision 7
- World Coatings Council Support to WHO International Lead Poisoning Prevention Week of Action
- CPCA Provides Orr&Boss Canadian, NA and Global Paint and Coatings Market Forecast for 2025

Note: This is a very limited view of the extensive work done by CPCA on these few issues. There are 'many' more such issues with several important actions taken such as data gathering, formal submissions, bilateral meetings, extensive industry engagement, technical committee work, etc. If your company is interested in or indeed impacted by these and other issues please note they are all curated for easy access on the only digital platform for the CASE industry in Canada, the Canada CoatingsHUB. If you would like a complimentary copy of the most recent 'members only' Regulatory Radar with much more insight on these and other issues please [contact CPCA](#). Or, become a member and get full access to the only digital database of regulatory issues in Canada for the CASE industry, the [Canada CoatingsHUB](#)

CPCA is Closely Monitoring Plastics Pollution Treaty Progress (INC-5)

The fifth and last meeting of the [Intergovernmental Negotiating Committee](#) (INC-5) aiming to develop an international legally binding instrument on plastic pollution, including in the marine environment is currently held in Busan, Korea. A legally binding treaty is expected to be finalized and circulated following INC-5. It may have profound implications when ratified and officially proposed in 2025. The sessions are divided in four groups: Group 1 to address chemicals of concern, product design and supply; Group 2 to address emissions and release and plastic waste management; Group 3 to address financial issues and capacity building and technical assistance need; and, Group 4 to address objective and scope, implementation and compliance requirements, reporting needs, awareness and

On the first day of INC-5 sessions, many countries, including Canada, advocated in Group 1 for the treaty to include provisions to restrict or prohibit chemicals of concern present or used to produce plastics. CPCA has shared on its CoatingsHUB the full text on Chemicals of Concern submitted by Canada, Georgia, Ghana, Moldova, Norway, Peru, Rwanda, Switzerland and Thailand. The criteria used for building a preliminary Annex of Chemicals included CMR, EDC, STOT RE, PBTs or very persistent and very bioaccumulative vPvBs. The Annex readily proposed the following inclusions: DHEP, DEP, BBP, BPA, lead and lead compounds, cadmium and cadmium compounds to be found in toys, children's products and food contact materials. On November 27, the United States submitted its own proposal and annex. The US delegation pleaded for a list of prohibition/actions regarding chemicals of concern to choose from. The US Annex targeted additional substances (i.e. Acrylonitrile, decaBDE, DIBP, DIDP, DINP, MBOCA, TBBBPA, TCEP, TPP, PIP 3:1, Vinyl chloride). Should a final listing restricting or prohibiting these chemicals be included in the treaty, it may have a significant supply chain impact on the CASE Industry following the implementation of the international legally binding treaty in Canada and by its trading partners. CPCA will participate in the Government of Canada's consultations and inform its membership in due course as always. Full details on the issues discussed over the past year can be found on the CoatingsHUB.

CPCA Gathered Member Input on a Consultation to Add Certain PFAS to the NPRI

Environment and Climate Change Canada is proposing to add reporting requirements for 131 individual polymeric and non-polymeric PFAS to the National Pollutant Release Inventory (NPRI) and plans to impose in the Canada Gazette Part I these new, final reporting requirements applicable to reporting years 2025. The list of 131 PFAS will be required to be reported by any facility that manufactures, processes, or uses ≥ 1 Kg of that PFAS at a concentration $\geq 0.1\%$ w/w. Last month, the US Environmental Protection Agency also consulted to add 16 individually PFAS and 15 PFAS categories to the Toxics Release Inventory list (TRI) for the coming years. Starting in 2020, the TRI already listed 172 individual PFAS with a manufacture, process, or otherwise use threshold of 100 lbs (45.3 kg) and concentration thresholds of either 0.1% for carcinogenic PFAS (only PFOS was identified as carcinogenic) or 1% for the remaining PFAS. For the 2024 reporting year, a total of 196 individual PFAS substances will be listed. Additionally, the concentration threshold will be removed.

CPCA and its members noted the differences in the reporting quantity threshold as well as the initial concentration threshold proposed in the NPRI for similar PFAS requirements contained in the TRI since 2020. The only PFAS in the US TRI with a concentration threshold of 0.1% was found to be carcinogenic while for the rest of PFAS, the concentration threshold was 1% w/w. This begs the question as to why an increased regulatory burden (and unassessed significant economic impact) is imposed for 'human health and environmental' quantity (and concentration) thresholds of hundreds of PFAS and should be stricter in Canada. Additionally, the identification of all PFAS should be determined 'after' the Final Screening Assessment Report and Risk Management Approach that will establish priorities of action and to rely on the findings of PFAS concentration, quantity and exposure data gathered from the S.71 survey on PFAS. More details on CPCA submission can be found on the Canada CoatingsHUB.

CPCA Presented at WHPP Multi-Stakeholder Workshop Virtual Meeting on November 7, 2024

The Health Canada Workplace Hazardous Products Program (WHPP) workshop was held on November 7, 2024 with over 200 attendees. The topics discussed were largely focused on all requirements associated with the Amendments to the *Hazardous Products Regulations* (WHMIS 2022) which were followed by a Q/A session. Shorter overviews on the Canadian Centre for Occupational Health and Safety and on the Consumer product labelling initiatives, which will include the implementation of a GHS-like HHHOC regime.

information available on the government website. A summary of the questions and answers will be added.

CPCA's Dave Saucier presented on implementation considerations that CPCA members and other industries' members should adopt for a full compliance with WHMIS Amendments Aligning with the Seventh Revised Edition of the GHS, such as a gap analysis and best practices. Dave reminded all attendees of the last deadline to convert to WHMIS 2022 in Canada for manufacturers, importers, and employers: December 14, 2025, a little later than a year. During this presentation, CPCA had the opportunity to stress to authorities the enormous challenges for industry to comply with the very different transition periods between the WHMIS 2022 and HCS 2024 (January 2026 for pure substances, July 2027 for mixtures) and the utmost importance to better align regulatory deadlines in a closely integrated North American trade.

Members Provided with Government's Analysis of Key Variances Between Canada's and US Implementation Approach of GHS Revision 7

The Workplace Hazardous Products Program (WHPP) is working with US OSHA to determine the variances between the 2 sets of regulations and to develop guidance to stakeholders in support of the transition periods for chemical manufacturers of substances and mixtures. At the end of October, the Health Canada WHMB published a new table which highlights 16 key variances between the Hazardous Products Regulations (HPR) in Canada, and the Hazard Communication Standard (U.S. HCS). For example, some of the variances relate to the use of prescribed concentration ranges for trade secret, the information under section 11 of the SDS, labelling exemptions for bulk shipments, small packaging labelling provisions, the labels on multi-container shipments, labels on kit outer containers. Health Canada is working to revise the "Guidance on the WHMIS supplier requirements" and will be updating the existing WHMIS 2015-HCS 2012 comparison discussions in the guidance and the newly identified variances between the more recent amendments to adopt GHS Rev 7.

CPCA distributed the Government's analysis of key variances to its members and will notify them when the updated guidance is available. CPCA will also be helping members resolve any related questions they may have regarding to the potential use of 'one label-one SDS' for products crossing the border. At the last multistakeholder workshop, CPCA also highlighted examples of how to address some of these variances for compliance with WHMIS 2022 and added a comparison with OSHA HCS 2024.

WCC Support to WHO International Lead Poisoning Prevention Week of Action

The **World Coatings Council** (WCC) supports the World Health Organization's International Lead Poisoning Prevention Week of Action, Oct. 20-26, 2024. During the campaign week, the Global Alliance to Eliminate Lead Paint (Lead Paint Alliance or LPA) reminds governments, civil society organizations, health partners, industry, and others of the unacceptable risks of lead exposure and the need for action. WCC actively supports the efforts of the LPA to engage governments and implement effective and enforceable legislation and regulation and welcomes the addition of the US Agency for International Development (USAID) to the partnership. The WCC is thrilled to work with UNICEF on efforts to ensure a lead-free environment in countries not currently restricting lead use.

WCC is an organization whose membership is comprised of paint and coatings trade associations from around the globe, including the Canadian Paint and Coatings Association (CPCA). WCC member associations have long had an interest in addressing the health, safety and environmental impacts associated with the manufacture and use of paints, including the recognition, evaluation and control of hazards arising from the use of lead in paint.

CPCA Provides Orr&Boss Canadian, NA and Global Paint and Coatings Market Forecast for 2025

the NA decorative/architectural coatings market in 2025. However, the residential segment should be up a bit more than the commercial/industrial maintenance segment, expected to be flat to slightly up. More globally, the paint & coatings market size and volume are anticipated to be flat in 2024 due to continued weakness in the major markets of China, Europe, and NA. Meanwhile, the overall growth is expected to reach 2.2% volume and 2.7% value growth in 2025. In Europe, most markets have stabilized after over two years of declines. Until Germany starts to show some growth again, any increase in the European paint and coatings markets will be limited.

The Canadian total paint and coatings market is expected to close the year with results to be slightly up in value and slightly down in volume of sales. The markets with negative trends in volume include automotive, wood, and general industrial/ACE. The total paint and coatings market is expected to pick up in 2025 (+1.7% in volume and +3.1% in value). The decorative/architectural, protective coatings and aerospace market should be display the highest growth.

Ensure Nothing is Missed on Regulatory Compliance in Canada

For more details on the issues noted above, and many more over the past month, please review the latest monthly [Regulatory RADAR](#) (Canada and US Edition) with links to important documents and ongoing actions being taken by CPCA and its committees on behalf of industry.

Note: If you are not a CPCA member, please ask for a [complimentary copy of the latest Regulatory RADAR](#).

[Send me a Copy of the Regulatory RADAR](#)



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de l'industrie de la peinture
et du revêtement



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GREEN INITIATIVES



AkzoNobel International New Product Announcement: Epoxy PFP Coating

The International 100%-solids, boron-free two-pack material can provide durability and combined corrosion, cryogenic and hydrocarbon protection. It provides three hours of jet and pool fire protection across a wide operating temperature range, shielding assets from all fire types. The material was tested for energy asset standards such as [ISO 22899](#) and improves HSE performance and footprint. International will make it available in other regions than the [Middle East in 2025](#).

Axalta Introduces Digital Platform for Automotive Refinish Industry & Produces New Series of Videos

[Axalta Nimbus](#), a global customer experience platform, seamlessly connects refinish customers to all of Axalta's tools and resources to improve efficiency, enhance productivity, boost performance, and maximize profitability. Nimbus provides a cohesive, end-to-end experience. Additionally, 3M and Axalta are collaborating to introduce a new brand-agnostic [Automotive Refinish training](#) content series of videos that set a new benchmark for how operational knowledge can be shared across the industry.

Sherwin-Williams Introduced Accelera® One the Latest in Advanced Flooring Coatings

The new [Accelera® One](#) is the next generation, advanced technology coating designed for use as a clear grout coat and topcoat in Sherwin-Williams decorative flake and colored quartz flooring systems which offers a new, long-lasting option for customers.

BYK Additives Help Create More Sustainable PFAS-free Solutions

Several benefits of PFAS additives can be covered by BYK PFAS-free additives depending on the system used. BYK will stop supplying PFAS-containing additives by the [end of 2025](#).

New Monetization Framework for Circular Economy Announced

A decisive factor in monetization is the integration of the entire value chain, away from individual value creation steps and towards thinking in terms of a circular economy. "It's not just about selling circular products but about [creating sustainable added value along the value chain](#) together with partners and customers through a designed framework from

Green Seal Unveils New Brand Identity

Green Seal®, a global nonprofit focused on safety and sustainability, has introduced a new brand identity to help consumers navigate greenwashing and identify products that are safer for people and the planet. Since pioneering the ecolabeling movement 35 years ago, Green Seal has transformed the sustainability of away-from-home products and the ecolabel to the household products market.



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

Membership

*Your Support is Essential
To Help Us Better Help 'Your' Industry*

The Canadian Paint and Coatings Association has six Membership Classes priced fairly to benefit each class according to its return in the industry. Your support and participation, along with all like-minded companies seeking better outcomes for the sector in Canada is now more critical than ever. In our case more is better given the current challenges.

[Explore Membership](#)

MEMBER **RECOGNITION**



PPG Announced Several New Appointments

On November 11, PPG Canada appointed **Sneha Shah as the new Product Stewardship Regional Lead**, succeeding Terry Sutherland, who retired at the end of October after almost **40 years as PPG Manager EHS-PS**. Terry has been a long-time participant in the CPCA Paint and Coatings Working Group and a winner of the CPCA's Roy Kennedy Award for his extraordinary contribution to the industry. Additionally, PPG appointed Tom Maziarz, currently vice president, Automotive Refinish, Americas, to become vice president, Traffic Solutions. Effective January 1, 2025, Rodolfo Ramirez, will also become vice president of Automotive Refinish, Americas and Denise Lu will assume the role of vice president of Packaging Coatings.

award at the Hardlines 2024 Outstanding Retailer Awards (ORA). This marks a significant milestone for Cloverdale and its commitment to excellence in customer service, industry-leading expertise, and community involvement.

Axalta Wins Another Distinguished R&D 100 Award for Innovation

Axalta's Primerless Consolidated Coating System won a **2024 R&D 100 Award** in the Mechanical and Materials category. The coating system is used in a streamlined, consolidated automotive paint process that delivers superior colour capability and provides sustainability and productivity to paint shops.

Sherwin-Williams Elects New Executive Chair

Sherwin-Williams recently announced the retirement of **Executive Chairman John Morikis**, signaling the culmination of four decades of leadership excellence. Morikis will remain on the board of directors until the April 2025 annual meeting of shareholders. Effective January 1, 2025, Heidi G. Petz will assume the role of chair after having served as president and CEO since January 1, 2024.

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Please share with CPCA appointments, awards, and special recognition in your company.

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CANADIAN ECONOMY



Advanced Indicators of Manufacturing Sales for October 2024

Statistics Canada's latest manufacturing sales release indicates that total manufacturing sales increased 1.3 percent last month. The largest increases were in the petroleum and coal product as well as transportation equipment subsectors.

BDC: Impacts of Donald Trump's Policies on Canadian Economy

A differential between the interest rate policies of the **Bank of Canada and the Federal Reserve** led to a depreciation in the loonie. Although a low Canadian dollar tends to support exports, new US export tariffs would counteract that advantage. Additionally, the tax cut effects in the US could also reduce Canada's business competitiveness. Trump's plan to increase U.S. energy production could lower oil prices and impact the Canadian oil sector, if not exempted from tariffs. Many NA companies are currently looking to take proactive measures to plan for Trump's threats to increase import tariffs which can be fixed at 25% for Canada and Mexico in 2025, if no sufficient efforts are made to control drugs and immigration at the border. What is the best course of action for Canadian businesses? Diversify your supply chain and market strategies after closely monitoring policy directions and consider reshoring/near-shoring options although local production brings its own challenges (access to expertise, automation, etc.).

Canada's Innovation Fund 2025

The Innovation Fund supports a broad range of research programs. The Fund provides continued investments in infrastructure, across the full spectrum of research, from the most fundamental to research applied through technology development. **The deadline to submit proposals is February 4, 2025.**



Paving the Way for Digital Innovation in the Paint and Coatings Industry

The **digital paint formulation** approach supports these goals by serving as a powerful tool for researchers.

Quebec Innovator Awarded for Anti-fog Coating

A **Université Laval PhD student** was recognized for her outstanding effort to launch and rapidly scale a start-up company focused on delivering next-generation plasma technology to enhance the characteristics of any flat surface or material—including an anti-fog treatment to keep the lenses of endoscopes clear during medical procedures.

UBC Researchers Develop Coating to Make Medical Devices Safer for Patients

University of B.C. researchers have developed a groundbreaking coating that could make medical devices safer for millions of patients. The new coating acts as a "soft barrier" on a device by attracting a key blood protein and keeping it from activating the blood clotting process. Designed to mimic the natural behavior of blood vessels, the coating could allow for safer uses of blood-contacting devices, like catheters, stents, blood-oxygenation machines and dialysis machines.

Raw Materials Suppliers Develop Adhesives Made from Captured CO2

The new technology captures **industrial CO2 emissions** and, using hydrogen, converts them into methanol, which forms 35% of vinyl acetate monomer and lead to the production of polymers in adhesive formulations.

New InvisibleBag Provides Water-soluble, Compostable, Biodegradable, Non-toxic and Leaving No Harmful Residue behind (Including Microplastics)

Retailers should consider purchasing the flexible **INVISIBLEBAG** as performant as any other plastic bags. After pouring boiling water on top, the bag dissolves after a few minutes in a liquid that can be thrown down the drain and then later be treated at wastewater plants where it will be consumed by microorganisms and completely broken down to CO2 and water, not releasing any microplastics. The BAG is certified non-toxic by EEQ and OECD 208 tests.

Polyols from Cashew Nut Shell Liquid: Cornerstone Building Blocks for Cutting-edge Bio-based Additives and Polymers

The development of polyols is derived from a **non-edible renewable resource**, cashew nut shell liquid, which exhibit unique properties, including hydrophobicity and plasticizing characteristics. These polyols are valuable building blocks for additives and are easily functionalized precursors of softer polymers.

Japan Airport Installs Glowing Runway Coating

The **High Luminance Luminous Paint Promotion Association** in Japan applied a high luminance phosphorescent paint to the runway at Yakushima Airport. The paint is seen from about 3,280 feet in the air, improving night visibility of the runway center line, and can withstand the wear caused by aircraft takeoff and landing. Recent conclusive tests will lead to a widespread use of the new coating in airports across the country.

UV-cured Nanocomposite Coatings with Fluorine-containing Silica Networks Improve Wear and Corrosion Resistance

These novel coatings are based on a diamino diphenyl sulfone (DDS) structure with fluorine-containing chains and SiO₂ networks. The DDS-based material was transformed into a precursor which was incorporated into an epoxy acrylate and 1,6-hexanediol diacrylate resin system, then cured by UV light. These **advanced hybrid nanocomposite**



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