

A Brief Look Inside Canada's Coatings Industry

I know the price of success: dedication, hard work, and an unremitting devotion to the things you want to see happen."

– Frank Lloyd Wright



AUGUST 2019

REGULATORY RADAR HEADLINES
PRESIDENT'S MESSAGE
CPCA REPORT
FOCUS ON OTTAWA

CORPORATE MEMBER PROFILE CORPORATE MEMBER NEWS NEWS OF INTEREST CPCA PARTNERS



REGULATORY RADAR

- Members Reminded to Provide Additional Information on Key Chemicals and their Compounds Used in the Coatings Industry
- Federal Government to Provide Updated File Format on Significant New Activity for Existing Substances
- CPCA Engaged in Government Information Gathering on Expanded CMP-3 Alkyl Aryl Sulfonates/Linear Alkyl Benzene Sulfonates and Derivatives (LAS/LABs) Group
- CPCA and Other Industry Groups to Submit Extensive Technical Information on True
 Copy Label to Health Canada Senior Management to Further Clarify Substantial
 Burden on Industry
- Members Participate in MHSW Wind-up Plan Consultation Webinar in Ontario Per Minister's Recent Direction Letter
- Member Comments on Proposed Third VOC Regulations Expected Prior to September 19
- EU TiO2 Carcinogenic Classification Status and Timeline Updated
- Latest Update of CMP-3 Year 4-5 Rolling Plan Highlighted for Members

PLEASE NOTE: Members Can Download Paint and Coatings Working Group Presentation Files from the CoatingsHUB. Should members require further information on any of the above or items included in this newsletter they can search them on the CoatingsHUB or contact CPCA directly.

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PRESIDENT'S MESSAGE

The previous Government in Ontario created a new Act and Oversight Authority for waste recycling that quadrupled the previous Agency's budget in less than three years. The budget is now more than \$8 million, up from less than \$2 million; tripled the staff from 9 to 27 and growing; and created upheaval in the waste sector in Ontario. All this is paid for by industry under extended producer responsibility legislation, that is, the Government stated that it required producers to pay for the costs of recycling, not consumers. All is being done with the likelihood of little or no improvement in waste



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All of this is being done by an Agency at arms length from the government, which the new government needs to address sooner than later to reduce regulatory burden, while at the same time build on recent successes in environmental outcomes. If not, it will end up as so many other Agencies in the past in Ontario, to the Government's detriment. Many have argued, and rightly so, that this Agency is duplicating existing program operations for various waste categories wherein professional program operators must already submit recycling plans for approval and have both operational and financial audits done annually. Moreover, the paint industry has excelled in meeting and exceeding established targets for paint waste recycling in Ontario. Why then the increased administrative and cost burden for industry with little prospect of positive outcomes for recycling? There have been no cost-benefit studies done on how recent actions to transition to a new Act would actually achieve better outcomes. What is expected and already proven to be the case is escalating costs for companies in many sectors in the Province.

The approach in Ontario is in stark contrast to that of British Columbia, for example, which has but one Act as in other Provinces, the Environmental Protection Act. With one Act BC continues to meet and/or exceed targets for paint and other recycling materials. In fact, the per capita cost of recycling paint per tonne in BC is significantly lower than that in Ontario; and they only have one Act without the regulatory burden and constant acrimony that has been the norm in Ontario for years on the waste file. There is no end in sight to this being resolved.

The current process in Ontario is increasing regulatory burden, with constant legislative and regulatory churn, new and expensive agencies, excessive consultations with numerous NGO groups, and what has become a consultant's dream! The obligated stewards under the Act are brand owners, the companies who must ensure the recycling gets done, but they are rarely listened to by the Agency despite many attempts to effectively engage. This is a situation that can no longer be ignored by industry or the Ministry of Environment.

If the oversight agency had done its job in the first place there would not now be a surplus of \$53 million in the MHSW program! Those funds were collected from paint companies and other material categories in Ontario without any services rendered for those costs. This was done in direct contravention of the original Waste Diversion Act mandating that funds be collected for the 'actual' costs of recycling services only - and nothing more. Why has this been allowed to continue for the past five years with no action taken by the Oversight Authority to return those funds to the companies who paid them from internal sources?

Now the paint industry has been told that those funds will not be returned to the paint companies who paid them, despite being forced by the Agency to internalize those fees and pay them retroactively each quarter, without a visible fee for paint. This required paint industry stewards, the companies, to absorb the costs for paint recycling. In this case the consumer did not even have the advantage of knowing a fee was used to recycle paint, which may have increased recovery efforts. To make matters worse other recycling programs have already been fully reimbursed some of the surplus funds that were accumulated related to their recycling efforts, with those funds now sitting in their bank account. And, they have also been permitted a 'fee elimination' period to use up the surplus

several material categories in the MHSW program, but not paint.

In contrast, the paint industry and other material categories, have been told the funds it paid for recycling, now on the books as surplus funds, is 'consumers money' that has to be returned to consumers. Yet, in the past the Government was adamant that 100% of the costs for MHSW materials like paint, batteries, solvents, etc. was paid for by industry, not taxpayers and consumers. How is it now that there is a surplus they are referred to as 'consumers money.' Surely no one involved with this kind of self-serving rationale have ever run a business. All this is being done with no credible explanation provided to the paint industry and other industries under the MHSW program. Only in Ontario could this happen and be viewed as normal!

Part of the obvious inconsistencies, which is the bottom line for industry, is that this the new Oversight Agency's recent actions goes against Ontario's new mantra of being 'open for business' with a new focus on 'reducing regulatory burden.' This new approach for waste reduction has been nothing but growing regulatory burden over the past several years with no sign of it abating any time soon.

A critical, independent review of the Oversight Agency for waste in Ontario, the various Acts and their objects should be undertaken sooner than later. The accumulated surplus funds have arisen directly as a result of mismanagement and improper oversight provided by those responsible. This is only made worse by recent advice given to the Minister to direct industry to pay consumers the surplus funds extracted improperly from the companies. Another action needed by the Ministry is to inject some business acumen with respect to decision-making and advice by appointing a Ministerial Industry Steward Council to advise the Minister.

The CPCA Board has been addressing this issue for some time and continues to work toward a more reasoned approach to this unfortunate situation, while the paint industry in Ontario continues to be committed to extended producer responsibility for leftover paint waste as in the past.

Gary LeRoux
President & CEO

REPORT

CPCA Participates in Treasury Board of Canada Secretariat Consultation on Regulatory Modernization

The Treasury Board of Canada Secretariat (TBS) has been inviting input from all interested stakeholders on the following four initiatives related to its regulatory modernization agenda: Targeted Regulatory Reviews (Round 2), Review of the *Red Tape Reduction Act*, Legislating changes to regulator mandates and Suggestions for the next annual Regulatory Modernization Bill. The 3-year Targeted Regulatory

process explores ways to enable more agile, transparent and responsive regulations that would support innovation and modernization. Comments are due in early fall.

CMP Update

- Members reminded of Final E2 Regulations deadline: Schedule 1 includes 249 substances that pose an acute hazard should an accidental release occur
- Members are invited to provide comments to CPCA on the Proposed Formaldehyde Emissions from Composite Wood Products Regulations before month-end.
- CPCA continues reviewing members' concerns on 64 Zinc and Soluble Compounds, which are considered to meet one or more toxicity criteria and be added to Schedule 1

VOC Architectural Regulations and Federal VOC Agenda 2010-2020 to be Renewed Next Year

As Canada proposed to lower their 8-hour ambient air quality standard for ozone to 62 ppb in 2020 and 60 ppb by 2025, further Volatile Organic Compounds emission reduction measures will likely be implemented by Environment and Climate Change Canada (ECCC) that target a number of industries during this period. In this context, CPCA members were informed that the Architectural VOC Regulations will be revisited next year, following ECCC officials' review of the national Architectural VOC survey report expected later this fall. ECCC also indicated that the Automotive Refinish VOC regulations may be reviewed some time during the 2019-2029 period along with the 2-Butoxyethanol Regulations, Solvent Degreasing Regulations and PCB Regulations. The 10-year Federal VOC Agenda 2010-2020 is set to expire next year and is likely be renewed with a focus on three remaining CASE categories that have yet to be fully addressed: Industrial Adhesives, Car Van Light Truck Assembly Coatings/Auto Parts Coatings, and Rubber Product Manufacturing and Plastic Parts Coatings. It is anticipated that a revisited VOC emission inventory will orient the government towards additional industrial CASE categories, should these be identified among significant remaining contributors to national VOC emissions.

Ontario Code for Medical Surveillance for Designated Substances to Take Effect

The Ministry of Labour's Code for Medical Surveillance for Designated Substances sets out the Medical Surveillance Program requirements for the following designated substances: asbestos, benzene, coke oven emissions, isocyanates, lead (inorganic and organic), mercury (alkyl and non-alkyl compounds) and silica. Ontario employers are required to provide for medical examinations.

IPPIC/WCC Reports on the UNSCEGHS 37th Session

The 8th revised edition of GHS and the 21st revised edition Recommendations on the Transport of Dangerous Goods, Model Regulations are available for downloads on the

Mica Supply Chain to Eradicate Child Labor

Mica has many applications as its visual properties provide effects in coatings for automotive OEMs. Through the Responsible Mica Initiative established in 2017 with a strategy to implement three program pillars (establishing workplace standards, empowering communities and advocating laws and regulations), an ambitious goal of establishing a responsible and sustainable supply chain and eliminating child labor in the sector was set for 2022. In 2018 RMI was recognized in a case study by the U.S. Department of Labor International Labor Affairs Bureau in its annual report on child labor and by the UN Forum on Business and Human Rights as best practice at its annual November conference in Geneva. The RMI counts more than 50 members who are their sole source of funding. The WCC (World Coatings Council), formely IPPIC, invites all members of the coatings industry, their suppliers and their customers such as automotive OEMs to join RMI and become part of the solution. www.responsible-mica-initiative.com



Canada's Upcoming Long-awaited ELD Rules to be Associated with a Two-year Implementation Deadline

The new regulation will be introduced in Canada as soon as possible. The made-in-Canada regulation will require third-party device certification to be used by all truck drivers, something the U.S. did not pursue. The hours-of-service rules themselves will not be changed; they'll simply have to be recorded using an ELD.

ECCC Publishes a List of Regulations to Review within a 10-year period (2019-2029)

ECCC expects to initiate the review of six regulations before March 31, 2020, which will include the VOC Concentration Limits for Architectural Coatings Regulations.

Competition Bureau's 2019-2020 Annual Plan Places Focus on Digital Economy

The Competition Bureau has published its 2019-2020 Annual Plan: Safeguarding the Future of Competition.

New Public Company Guidance on Material Climate Change-Related Risk Disclosure Issued

Canada's securities regulators have published a guidance, Staff Notice 51-358, for public companies on preparing disclosure about material climate change-related risks, which states that climate change-related risks and their potential financial impacts are now mainstream business issues. The information disclosable is

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any known trend, event or uncertainty.

CPCA Members on the Leading Edge of Sustainability

CoatingsTech: An Update on Sustainability in the Coatings Industry

CoatingsTech asked some coatings manufacturers and raw material suppliers (i.e. AkzoNobel, Axalta, BASF, Benjamin Moore, PPG and DSM Coating Resins) to share their thoughts on the current state of sustainability in the paint and coatings industry.

AkzoNobel's 'Next Generation' Sustainable Primer Qualified by Boeing

A chromate-free exterior primer developed by AkzoNobel's Aerospace Coatings business was newly qualified by Boeing. The product creates the most sustainable exterior coating system for Boeing aircraft, potentially doubling the life of the paint job.

Dow Technologies to Enhance Performance and Sustainability of Olympics Venues

Dow, a Worldwide Olympic Partner and the official chemistry company of the Olympic Games Tokyo 2020, is implementing solutions to help insulate, seal, connect, coat and protect key Olympic venues.

U.S. Naval Research Laboratory Developed a Pigment Package to Slow Discoloration of the Exterior Coating on Ships

Recently, Sherwin-Williams won the Society for Protective Coatings Military Coatings Project Award of Excellence for its new topcoat paint that incorporated this new pigment after it was used to overhaul the USS George Washington. While many paint manufacturers had produced new coating technologies that solved a variety of other problems, such as corrosion and delamination, some ships have still shown discoloration in as little as 18 months.

PROFILE

This monthly feature profiles our valued members and highlights the work they do in the sector and their contributions to economic growth and sustainability. This month is CPCA member MG Chemicals:



Founded in 1955, M.G. Chemicals is a manufacturer and wholesaler of chemical products for the electronics industry delivering over the years solutions in exact volume, labelling and formulations that the customers need. The company now operates two manufacturing

focused on a few integral products such as cleaning and shielding components, and on providing extensive customer technical support for product applications, product choices, and information on the science behind the products. MG Chemicals also excels by providing direct access to its team of in-house chemists, engineers, and application scientists. Together, the technical support team has decades of industry experience and application data to assist customers. Their technical experts are well equipped with modern testing equipment in their state-of-the-art laboratory and are also knowledgeable in thermal analysis, chemical characterization, as well as electrical, physical, and mechanical testing.

The company's chemical products portfolio includes dusters and circuit coolers, cleaner / degreasers, flux removers, contact cleaners, protective coatings, solder, epoxies, adhesives, RTV silicones, lubricants, EMI/RFI shielding coatings, thermal management products, prototyping supplies, and more. M.G. Chemicals also distributes related nonchemical products, such as wipes, swabs, brushes, desoldering braid, and copper clad boards. Their conformal coatings improve the reliability and life of electronic component. Meanwhile their conducive adhesives offer superior bonding, strength and excellent conductivity. In 2018, MG Chemicals released a new line of one-part epoxy adhesives for electronics manufacturing that overcome some of the challenges traditional one-part formulations have been facing (I.e. high cure temperatures, frozen storage requirements, and limited shelf lives). MG Chemicals' line of one-part epoxy adhesives confer excellent adhesions, no mixing and up to 12 months storage at room temperature, which will be a positive impact on electronics assembly in the years to come. MG Chemicals also sells 3D printer filaments, chemicals and accessories for high quality results. One of the most talked about trends in 3D Printing is how major aerospace suppliers are using the manufacturing technology for lighter-weight, precision components that are integral to the operation of modern aircraft. In order to start realising the potential of 3D printing, OEMs need to rethink their supply chain strategies and adopt a 'super local' model of innovative local suppliers who are close enough to fulfil demand for replacement parts at short notice.

The company has been registered with the ISO 9001 quality system since February 1996 and maintains a strong commitment to protecting the environment by using ozone friendly formulations, by currently working towards registration of ISO 14001. M.G. Chemicals supports the elimination of conflict mineral resources through a policy, certifies that all its products (except for a few) are compliant with the EU Restriction of Hazardous Substance (RoHS) Directive and actively evaluates Prop 65 law to ensure compliance. MG Chemicals is a member of the IPC, an international industry association that is focused on the design, PCB manufacturing, and electronics assembly and a leading source of standards and quality programs for printed circuits boards and assemblies. MG Chemicals uses many IPC test methods in the qualification of its products. The company recently participated in the International Conference for Electronics Enabling Technologies in June 2019, in Markham, Ontario.

MEMBER NEWS

C&EN's Global Top 50 Chemical Companies of 2018

The 2018 ranking has a new top company, DowDuPont. It ends BASF's 12-year reign as the largest chemical company in the world, but only temporarily. DowDuPont already split into three separate firms—Dow, DuPont, and Corteva Agriscience—earlier in 2019.

Chemical Member Companies Use Drones to Reduce Workplace Risk

BASF, Dow and other companies are using autonomous drones to inspect various equipment, such as towers and tanks, and complete tasks that pose a risk to workers.

Sherwin-Williams Provides Corrosion Protection for Royal Navy's Largest Warships

Sherwin-Williams has delivered a diverse range of protective coatings to more than a million square meters of HMS Queen Elizabeth and sister ship HMS Prince of Wales — the largest warships ever built for the Royal Navy.

AkzoNobel Helps Professional Painters with New Color Sensor Launch

The small portable device can accurately scan color on any object. It then links to a Color Sensor app which provides the exact paint color match. Currently being rolled out in more than 12 countries, the Color Sensor will be launched in more countries later this year.

PPG Indianapolis Aerospace Center Provides Opportunities for Visually Impaired

PPG Indianapolis aerospace application support center (ASC) is working with non-profit Bosma Enterprises to provide employment opportunities for people who are blind or visually impaired.

Tnemec Launched New Improved Website

Tnemec celebrated the launch of the new website on August 2, 2019, at the company's main manufacturing facility in North Kansas City.

BASF Launches Production Line for the Functionalization of Films

BASF developed the novel coating technology and the first product - a barrier film - within a very short time. New materials, applied layer by layer in ultra-thin layers, give films additional properties, known as "functionalization." These barrier films protect thin-film photovoltaics, for example, from harmful environmental influences.

Mergers, Acquisitions and Distribution Agreements

Mergers and Acquisitions from Mid-2018 to Mid-2019: Deceleration in the Coatings Industry

All in all, the number of mergers and acquisitions has declined. This is not only the case in the coatings industry, but also in the chemical industry as a whole. In the first four months of the year, 225 takeovers and mergers in the chemical industry were counted compared to

Brenntag Selected by Arkema as Primary Distributor of Waterborne Resins in the USA & Brenntag Specialties Announces New Distribution Agreement with Yipin USA

Effective August 1, Brenntag North America, Inc is the primary distributor in the USA for Arkema waterborne resins. Brenntag Specialties is now a distributor for Yipin USA's coatings, cosmetic, and personal care lines of iron oxides in the United States.

PPG to Acquire Specialty Materials Manufacturer Dexmet Corporation

Dexmet is a manufacturer of specialty materials for surfaces in aerospace, automotive and industrial applications in Connecticut. The transaction should close in Q3 2019.

Exclusive Partnership Agreement to Launch Chloride Process Titanium Dioxide for North American Coatings Applications

G&J Resources Inc. has signed an Exclusive Partnership Agreement with Yibin Tianyuan Group Co. Ltd. TYR-588 is designed for formulators searching for a single grade of TiO₂ with performance covering wide range of solvent and waterborne systems for architectural, industrial, and automotive applications.

Huntsman to Sell Two Units to Thai-based Indorama Ventures for US\$2.08B

The deal is to sell its chemical intermediates and surfactants businesses located in parts of Texas, India and Australia.

Maroon Group Acquires Amsyn

New Hampshire-based Amsyn, LLC is a national distributor of specialty chemicals to the coatings, lubricants, nutraceutical, pharmaceutical, and electronics industries. Since coming under the ownership of CI Capital in June 2014, Ohio-based Maroon has completed nine add-on acquisitions.

APPOINTMENTS

PPG Appoints New Architectural VP US & Canada

Jaime Irick was appointed to lead Architectural Coatings U.S. and Canada business. He will report to Tim Knavish, PPG senior vice president, architectural coatings and president, Europe, Middle East and Africa. Irick will succeed Dave Cole who retired on July 31, 2019.

Axalta Promotes Troy Weaver to VP, Global Refinish

Weaver will report directly to CEO Robert Bryant.

MAPEI's Johnson to Serve on FCICA Executive Board

Prior to accepting the nomination for vice chairman of associates, Jeff Johnson has been an active member of the Flooring Contractors Association (FCICA) for more than 20 years.

NEWS OF INTEREST

International News

2019 Innovations in Graphene, Nanofibers, Nanocoatings, and Nanomaterials for Packaging

The Chemicals and Advanced Materials cluster tracks research and innovation trends and developments across specialty chemicals, plastics, polymers, chemicals, bio-chemicals, metals, coatings, thin films, surface treatments, composites, alloys, oil and gas, fuel additives, fibers, and several other related technologies and its impact and application across industries.

2018-2021 Emerging Coatings Markets in Middle East and Africa

The Middle Eastern and African regions are relatively small in terms of coating consumption but sales have grown rapidly in recent decades.

Building Waterproof Coating Market 2019-2025

This market is expected to grow at a CAGR of 7 per cent during the forecast period.

Anti-Slip Coatings Market 2019-2026

This market will grow at a CAGR of 6.75 per cent during the forecast period.

Global Contact Adhesives Market 2019-2024

This market is expected to grow at a CAGR of around 5.7 per cent during the forecast period with a shift towards waterborne adhesives.

Structural Adhesives Market to Reach US\$16.9B by 2026

This market is expected to grow at a CAGR of 6.98 per cent from 2018 to 2026. The use of bio-adhesives is a main driver of way forward.

Global Aerospace Adhesives and Sealants Market 2019 - 2025

PPG Industries Inc is among the top players in this market.

Economic News

Canada's GDP Grows 0.2 Per Cent in May

The Canadian economy grew for a third consecutive month in May. Overall as 13 of 20 sectors advanced. Manufacturing and real estate were "coming back to life" after earlier setbacks. While growth is expected to pick up throughout the rest of the year, Canada's overall economic growth will be just 1.4 per cent this year.

\$136M Canadian Trade Surplus in June, Both Imports & Exports Down

Analysts had expected a trade deficit of \$300 million, but the June's surplus narrowed from a stronger \$556 million in May. Imports were down 4.3 percent to \$50.2 billion, the lowest level since November 2018. Exports fell 5.1 percent to \$50.3 billion. In recent years, Canada's export performance has not been stellar. Excluding oil exports, the volume of

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C.D. Howe Report Finds no Winners in Canada U.S. Mexico Free Trade Agreement

Canada's real GDP is expected to shrink by 0.4 per cent and its "economic welfare" - a measure of the value of household consumption — will decline by more than US\$10 billion. Mexico's GDP will fall by 0.79 per cent and the U.S. will see a 0.1 per cent drop, leading to economic welfare setbacks of \$14.9 billion and \$17.4 billion, respectively. The U.S. International Trade Commission estimated ratifying the trade deal would result in both U.S. exports to Canada and imports from Canada increasing by the same amount, \$19.1 billion.

CME Calls for National Strategy to Increase Manufacturing Productivity and Technology Adoption

Over the last 15 years, labour productivity in Canadian manufacturing has increased by about 20 per cent, compared to nearly 50 per cent in the US and more than 100 per cent in locations like South Korea, Taiwan and Eastern Europe.

Credit Card Tracks Carbon Emissions of Each Purchase

Swedish startup Doconomy has launched a credit card that tracks the carbon emissions of each purchase and allows users to offset these with donations. The card comes with an app that uses a system called the Aland Index to measure the CO2 emission of every credit card purchase. The card also allows to compensate for any environmental impact by donating to UN-certified green projects.

IISD Wins Big in Global Think Tank Awards

The Winnipeg-based International Institute for Sustainable Development (IISD) received three top honours at the 2019 Think Tank Awards, presented by Prospect Magazine. The prestigious awards recognize the "most original, influential and rigorous work" of think tanks around the world. This is only the second time a Canadian institution has won in the competition.

Focus on Architectural

Canadian Housings Starts Showing Sustained Strength in July

Canadian housing starts posted 222k units (annualized) and were well above market expectations (202k). On the whole, homebuilding appears to be more robust than previously thought and residential investment could see sustained healthy gains through the second half of this year.

Koin Rewards App Automatically Rewards Shoppers upon Completing a Responsible Purchase

UK-based Koin Rewards has launched a sustainable rewards program in collaboration with card linking API Fidel. The company's goal is to build a community of traders and users based on shared environmental values. The app automatically rewards shoppers upon completing a responsible purchase. Fidel's API technology allows users to connect their Mastercard, Visa or Amex card to their Koin Rewards.

Focus on Industrial & Automotive

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Passenger car sales dropped by 16.8 per cent, light trucks by 5.8 per cent in July. The year-to-date trend for light vehicles dropped by 4.8 per cent.

Marine Coatings: "Increased Need for Cooperation in Antifouling"

Registration costs are high and the investment and time to market new marine coating products is 7 to 10 years while the number one concern, the regulatory framework, keeps changing and determining whether or not allocate any development time to new raw materials. As additives/polymers can stop fouling organisms from attaching themselves to and/or growing on the coated surface, thereby preventing them from doing any damage, more research projects are needed to make contributions to anticorrosive paints.

Technical News

Spherical Titania and Their Influence on Self-cleaning and Anticorrosion Properties of Acrylic Resin

TiO2 particles prepared by sol-gel method with different diameters can enhance the selfcleaning properties of acrylic resin.

Size-dependent Corrosion Behavior of Graphene Oxide Coating

Researchers investigate how the size of graphene oxide sheets influence corrosion protection in a recent coating study.

Improved Plasticizers Help to Fill the Gap in Polysulfide Sealants

Polysulfide sealants offer excellent resistance to solvents, chemicals, low temperatures, and flex-cracking, as well as good adhesion and impermeability in applications such as insulated glass, construction, aerospace, and secondary containment. Novel monomeric and oligomeric dibenzoate plasticizers have been introduced for polysulfide sealant applications. They are high-performing, low-fogging alternatives, more environmentally friendly, safer, and REACH-compliant alternatives to chlorinated paraffins. They exhibit equivalent or enhanced performance compared to a phthalate plasticizer.

Focus on Architectural

Researchers Use Tannic Acid to Help Create Improved Adhesives, Coatings and Manufacturing Composites

As there are few high-temperature hardeners that are sustainably-produced, this new technology for epoxy-based polymers minimizes environmental impact without sacrificing performance.

A Polydimethylsiloxane-coated Metal Structure for All-day Radiative Cooling

Radiative cooling is a passive cooling strategy with zero consumption of electricity that can be used to radiate heat from buildings to reduce air-conditioning requirements. The new inexpensive planar polydimethylsiloxane/metal thermal emitter thin film structure

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Graphene Roofing Product Launched in UK

This ground-breaking liquid coating roofing system significantly enhances anti-corrosion performance delivered by the incorporation of graphene following an extensive product development and a rigorous testing programme

Focus on Industrial

Improved Paint Adhesion of Environmentally Friendly Paint Film on Wood Surface by Plasma Treatment

A plasma-modified treatment could increase the wettability of the beech and UV primer, and help improve adhesion of paint film between the primer and substrate, as well as between the UV primer and water-based topcoat.

New Green Biodegradable Plastic

The amount of plastic garbage will surpass the number of fish by 2050 and microplastics are already entering the human body. Therefore, plastic recycling, reduction of plastic usage itself, and biodegradable plastic usage and development are crucial. The Green Science Alliance invented a certified nano cellulose & PBS (Poly Butylene Succinate) composite material. The Cellulose Nanofibre is recyclable and biodegradable.

Canadian Startup Develops Eco-friendly, CO2-Injected Concrete

A Canadian start-up has found a way to replace some of the cement mix used in concrete with CO_2 . The CO_2 can be sourced from industrial facilities.

First-ever Automated Dispatch and Delivery with Autonomous Truck Announced in New York

Loadsmart and Starsky Robotics were able to automatically dispatch an autonomous truck to haul freight; having successfully priced, tendered and booked via Loadsmart and then picked up and delivered the shipment using Starsky's self-driving technology.

New Bio-based Thermoplastic Adhesive

Follmann and Sealock have developed a sustainable adhesive made of bio-based raw materials for the bonding of compostable plastic coatings.

PARTNERS

CME Asks for More Immigrants and Simplified Procedures

Canadian manufacturers are experiencing severe labour shortages. Two-thirds of manufacturers have trouble finding workers today and 3 out 4 expect the problem will get worse in the next five years. According to the Organization for Economic Cooperation and Development, one out of five people in Canada is foreign-born, one of the highest percentages in the OECD countries. Considering the labour shortage, these workers

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CIAC Seeks Innovation Fund for Plastics Recycling Technology in Federal Pre-budget Submission & ACC's Saves Our Seas Act 2.0 Promotes Circular Economy

The Chemistry Industry Association of Canada recently asked Canada to commit to the establishment of a new Plastic Technology Innovation Fund to promote the research and development of ground-breaking technology in plastic recycling and recovery innovation. The American Chemistry Chemistry Council supports the Saves Our Seas Act 2.0, which will enable further research into novel ways to repurpose used plastics and will help accelerate progress toward a circular economy for plastics in the US and abroad.

WEBINARS · COURSES · PUBLICATIONS

- Download IISD Book: Modelling for Sustainable Development: New Decisions for a New Age
- 4 Things Brands Should Do for the Environment Instead of Launching a New Sustainable Line
- Professional Development Program for New, Emerging or Aspiring Leaders
- From NAFTA to CUSMA: The Changes, the Additions, and What Remains
- Zero Waste to Landfill
- Free Webinar: Strategies for Innovation, Change Management: Take a Closer Look at Teamcenter Product Lifecycle Management (PLM) Software September 4, 2019

CPCA & INDUSTRY **EVENTS**

Don't miss several events, now posted to CPCA's Events section. Members can register to ALL CPCA hosted events directly on the website however, please note that registration fees are still processed through the office.





CPCA: Protecting Your Interests Since 1913

CPCA regularly publishes several important publications to ensure members are fully informed of ongoing issues and actions impacting the paint and coatings industry in Canada. These include:

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regulatory report

CPCA Regulatory RADAR reports on news of interest to paint and coatings manufacturers, suppliers and distributors. A members-only publication detailing comprehensive legislative and regulatory actions at all levels of government.

Prime Time News

A publicly available monthly newsletter sent to members, stakeholders and governments to provide a window into the industry for those with an interest or role in the sector.

Industry NOW

A members-only publication addressing relevant issues for those involved in management, sales and marketing in member companies.

CPCA INSIGHT Guide & Directory

published annually to report on CPCA's work on behalf of members, key trends in the industry, raising awareness of the issues important for the sector and a guide of CPCA members supporting the important work done to sustain a long-standing and viable Canadian industry

Regular Bulletins, Updates, Memoranda and Press Releases

CPCA members are fully informed and can have direct input on actions taken by CPCA's board, technical committees and staff to ensure the industry is represented at the table when decisions are made affecting their business.

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