

BioCORTEC®

NEWSLETTER

October 2023

New Patent for Industrially Compostable Stretch Wrap!

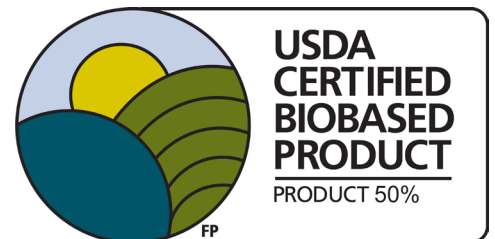


On August 8th, Cortec® Corporation was granted a US patent for its commercially compostable industrial strength stretch film technology, also known as Eco Wrap® film! This patent is a significant milestone in Cortec's ongoing quest to develop environmentally responsible products and distinguishes Cortec® as a leader in "green" packaging technology! Eco Wrap® is a specialty wrapping film that meets the EN 13432/ASTM D6400 standards for commercial composting and was certified industrially compostable by TÜV Austria (#TA8012106218) in 2021. It is extremely elastic and suited for general machine stretch wrapping applications. It can be used to replace conventional plastic stretch wrap with the goal of improving the user's environmental image and reducing

conventional plastic waste when the material is properly disposed in a commercial composting environment.* Learn more about it here: <https://www.cortecpackaging.com/cortec-awarded-patent-for-industrially-compostable-stretch-wrap-technology/>

Biobased Paint Strippers Stand Ready for Proposed Methylene Chloride Ban

This year, the EPA proposed banning most uses of methylene chloride, mentioning the availability of alternative products that do not include this extremely dangerous chemical. In light of tightening regulations and the obvious hazards of methylene chloride (a chemical often used in industrial paint strippers) Cortec® invites those seeking alternative products to consider trying EcoLine® 4320 or 4330 for their next paint removal task. Cortec® introduced EcoLine® 4320 and 4330 five years ago as more retailers were pulling paint strippers containing methylene chloride and N-methylpyrrolidone (NMP) off the shelf. EcoLine® 4320 and 4330 do not contain either of these substances. Both are USDA Certified Biobased Products that contain 50% USDA certified biobased content.



* This product is intended to be composted in a commercial composting facility operated in accordance with best management practices. Check locally to see if such a facility exists in your community and if they will accept this product. Not suitable for backyard composting.

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EcoLine® 4320 and 4330 can be used on metal, cementitious, and masonry surfaces such as tanks, pipes, equipment, floors, and stairways. EcoLine® 4320 is a liquid version that can be applied via dip tank; EcoLine® 4330 is a gel that can be brushed or rolled onto coated surfaces. In most cases, EcoLine® 4320/4330 will soften the coating enough to remove it in 15-30 minutes, although this can vary depending on the number of layers and age of the coating. Corrosion inhibitors provide the added benefit of protection against flash rust on metals during the stripping process. Contact us to learn more: <https://www.cortecvci.com/contact-us/>

Cortec® Biobased RP Features at a Glance

Product Carrier			
Bio-based	Oil-based	Water-based	Solvent-based
BioCorr®	VpCI®-369	VpCI®-377	VpCI®-239
EcoLine®-3220		VpCI®-391	VpCI®-368
EcoLine®-3690			

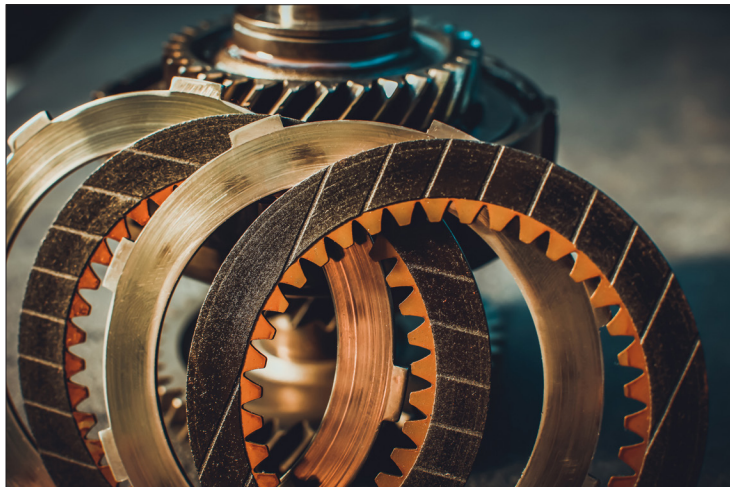
One of the nice things about our portfolio of rust preventatives (RPs) is that they include specific characteristics that make some Cortec® RPs ideal for one application and other Cortec® RPs ideal for another. We recently shared some helpful selection grids that can guide users on which RP they prefer for their application. One of these grids focuses on product carrier and includes three biobased options. The other grids show where these biobased RPs fall in terms of level of protection, film type, and removal. Click here to get a better understanding of the Cortec® RP landscape! <https://www.cortecvci.com/news-alert-how-to-select-the-best-cortec-rust-preventative-for-your-needs/>

Biobased Rust Removal for the Auto Industry



Is rust removal a viable option for the auto industry? Often automakers focus more on rust prevention because rust removal represents metal loss, and exposure to some harsh rust removers can lead to hydrogen embrittlement. However, one rust remover that may be an option when oxidation gets the better of automakers is VpCI®-422, a rust removal liquid that contains 92% USDA certified biobased content and works well in dip tanks.

On one occasion, a major automaker decided to follow this process after discovering that 1.7 million transmission clutch plates had rusted in their warehouse. Each part was worth approximately one dollar a piece, representing a staggering economic loss if the parts could not be restored. The main concern was hydrogen embrittlement, but testing found that VpCI®-422 was strong enough, yet



mild enough, to perform rust removal in 10-20 minutes without hydrogen embrittlement. It took about nine months to complete rust removal on all 1.7 million parts, but the clutch plates were finally restored, neutralized, and packaged for a huge savings to the automaker.

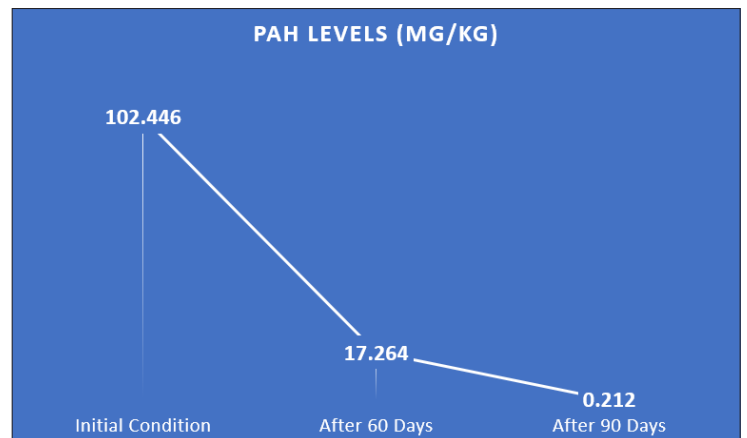
Rust *prevention* is admittedly the best choice, but fortunately, VpCI® presents a potential option when restoration is necessary for millions of parts! Learn more: <https://www.cortecvci.com/news-alert-the-vpci-422-advantage-for-rust-removal-in-the-auto-industry/>

Bionetix® Highlights

It is exciting to see new products from our biotechnology subsidiary that help speed up biodegradation of contaminants and wastes! Here are two of special note.

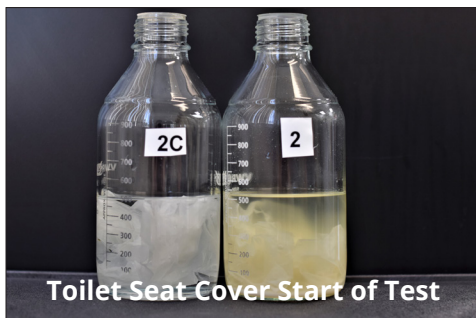
New BCP35S™ Premium Enhances Soil Bioremediation!

Soil contaminated with petroleum hydrocarbons is a widespread health and environmental concern. Cleanup methods can be complicated, expensive, and sometimes harmful to the environment. Bionetix® International offers a friendlier path via bioremediation with its new BCP35S™ Premium, an upgraded version of BCP35S™ for even better targeted bioremediation of soil contaminated with PAH (polycyclic aromatic hydrocarbons). BCP35S™ Premium includes fungi and a higher percentage of special bacteria for enhanced performance. It was designed for a company performing ex situ bioremediation on soils that showed higher PAH compared to previous specimens. Laboratory testing with BCP35S™ Premium caused the PAH levels in the soil to drop significantly from 102.446 mg/kg to 17.264 mg/kg after 60 days. At the end of 90 days, this had dropped even lower to 0.212 mg/kg! The client company was very satisfied with these results and planned to continue improving its bioremediation capabilities using Bionetix® products. Learn more about the new BCP35S™ Premium here: https://www.cortecvci.com/whats_new/announcements/Bionetix-Introduces-BCP35S-Premium-for-Enhanced-Soil-Bioremediation-PR.pdf



New Bio-Enzymatic Paper-Eating Solution to Toilet Paper Clogging!

Excess toilet paper, clogged pipes, overflowing toilets, and bad smells are all-too-common encounters for those who clean and maintain restrooms. Bionetix® International is working to change that by introducing a revolutionary bio-enzymatic “paper-eating” solution called PAPERATOR™!



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The new PAPERATOR™ contains specialized probiotics and enzymes that efficiently break down cellulose-based materials frequently found in toilet paper, seat covers, and paper towels.† This action significantly reduces the risk of paper clogging pipes and sewer systems and leading to expensive plumbing interventions. Better yet, by harnessing the technology of nature, PAPERATOR™ presents a sustainable solution that does not harm plumbing or septic systems. Learn more about PAPERATOR™ here: <https://www.bionetix-international.com/bionetix-introduces-paper-eating-solution-to-toilet-paper-clogging/>

†Note: PAPERATOR™ is not intended for treatment of non-biodegradable materials, plastics, or substances that could disrupt wastewater treatment processes.



Upcoming Events

**ISSA Show
North America 2023**
November 14th-16th, 2023
Mandalay Bay Convention
Center
Las Vegas, NV
Booth #1012
www.issashow.com



NISTM
December 6th-7th, 2023
The Woodlands Waterway
Marriott
The Woodlands, TX
www.nistm.org/



World of Concrete
January 23rd-25th, 2024
Las Vegas Convention
Center
Las Vegas, NV
Booth #S12157
www.worldofconcrete.com



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