



LookBook 2023



 **PolyCore**

Protecting Our Planet with Your Products.

Contents

Pillars

- ▼ Sustainable Innovation
- ▼ Durability & Performance
- ▼ Customization

Products

- ▼ Eco-Coating
- ▼ Eco-X
- ▼ Eco-Shield
- ▼ PETProtect

People

- ▼ Meet the Team

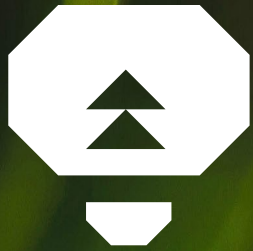


Our Mission

To create textile technology that protects our planet.

Why should products tough enough to survive the rigors of outdoor adventure damage the environment? PolyCore was founded to correct that failing through materials science and advance the textile industry to new levels of performance and sustainability. We combine our patented water-based coatings with the highest quality, earth friendly textiles to achieve that goal.

The Pillars of Polycore



Sustainable
Innovation



Durability
& Performance



Customization





Sustainable Innovation

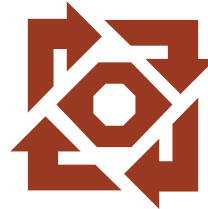
PolyCore was founded to provide a solution to a very big problem: harmful coatings throughout the textile industry. Our focus is to phase out harmful textile coatings throughout the entire industry and replace them with sustainable alternatives.

PU coatings are typically solvent-based rather than water-based. This has been the norm in textile coating for decades. Solvent-based coatings create harm because they release Volatile Organic Compounds (VOC's) when applied and as they cure. VOC is a general term for chemical gases that are emitted into the air we breathe. Not only are VOCs toxic to inhale, they are considered a greenhouse gas. When they get into our air and our atmosphere, they contribute to climate change, ozone depletion, and health risks.



Designing for the Environment

Did you know that up to 90% of a product's impact is determined during the design process? The most important decisions are happening right now, and we are there to help to help you reduce your product's impact.



Supply Chain Transparency

We are stringent about analyzing our supply network, and we are happy to share that information with our partners. Brands and their consumers should have a full understanding of all tiers of their network. Each shipment comes with its own Transparency Portfolio identifying every step in the manufacturing process.



Long Lasting Products

The most sustainable product is the one that never needs to be replaced. Durability is one of the most important environmental qualities and that is why our products are engineered to enhance abrasion resistance and tear strength.



Durability & Performance



Enhanced Tear Strength

Carbon nanotubes greatly improve the tear strength of our high-performance fabrics.



Extreme Abrasion Resistance

Our coatings were invented with abrasion resistance in mind. Our products can outperform any solvent-based coatings.



Customizable Water Resistance

We use a C⁰, PFAS free water repellent coating designed to reach your desired level of hydrostatic resistance.



Customization



Product Development

At PolyCore, we are not believers in 'one size fits all'. When it comes to functional fabrics, we understand that every brand has their own unique needs. This is why our team will work closely with yours to determine the perfect high-performance sustainable solution.

Our coatings can be applied to the majority of fabrics with an emphasis on recycled polyester. We have close ties with fabric suppliers, and we are more than willing to share our supply chain and expertise. We partner with facilities that supply Global Recycled Standard (GRS) certified recycled textiles and use certified sustainable practices.



Marketing

We work with you on the back end and help you weave together the storytelling behind your sustainability efforts. When you work with PolyCore, you're choosing to design for the environment. We want to make sure that the industry and consumers understand the commitment your brand is making so that others can follow in your footsteps. We gather sustainability and performance data so you can make science-backed marketing claims.

When you switch to waterborne PU, you are putting your brand ahead of the game. We will be there to assist you in communicating the magnitude of this step and what it means for our planet.

Products

Eco-Coating

Eco-Coating is our patented water-based coating. Eco-Coating provides an environmentally friendly alternative to solvent-based textile coatings. We use water rather than a harmful solvent to disperse our coating, eliminating the toxic chemicals (acetone, MEK, DMF) involved in the textile coating process.

Eco-Coating performs better than the solvent-based coatings on the market and we have rigorous testing to prove it. Eco-Coating also increases abrasion resistance by over 500%. PolyCore's patented application process presses Eco-Coating into the base cloth fibers. Any abrasion to the face cannot penetrate to the back of the product, dramatically reducing wear and tear.



Eco-X

Tough products require hardy textiles. Our research discovered a way to enhance tear strength as well as abrasion resistance by infusing our Eco-Coating with microscopic carbon nanotubes. This results in an even more durable coating we call Eco-X that can double the tear strength of a fabric. It has been nominated for both the Outdoor Retailer Innovation Award and the ISPO Textrends Award.



Water Repellent



Extreme Abrasion Resistance



Tear Resistance



Products

Eco-Shield

Eco-Shield is a sustainable alternative to traditional materials such as Hypalon and tarpaulin while maintaining their characteristics and mechanical properties. Unlike those materials which are made from synthetic rubber and can be harmful to the environment, Eco-Shield is made from recycled polyester and our Eco-X coating. This creates a more environmentally friendly option with compromising on performance. Eco-Shield is resistant to water, extreme temperatures and makes a ultra-durable choice for a wide range of outdoor and industrial applications.

PETProtect

We are just completing development on PETProtect, a coating manufactured from recycled polyester that goes one step closer to realizing true circularity in product design.



Recycled Polyester



Water Repellent



Extreme Abrasion
Resistance



Tear Resistance

(PHOTO HERE)

Management Team

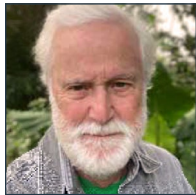
When diverse ages, backgrounds and experience come together, magic happens. At PolyCore science and seasoning combine.



Arthur Chen | *Founder* | arthurc@polycoresolutions.com

Arthur grew up in Taiwan and has been in the textile business his whole life. After receiving a Masters in Material Science and Engineering from the University of Toronto he became a fabric supplier and backpack developer. A large customer was JanSport and, in 1999, he became President of JanSport China for five high-growth years.

Arthur continued his textile business but felt something needed to be done about the dirty business of coatings. PolyCore Solutions is the culmination of his decades of textile experience and thousands of hours studying the solidification of polymers.



Paul Delory
Partner
pauld@polycoresolutions.com

Paul became a Partner in PolyCore in 2018 after 50 years of experience in the outdoor industry. Paul was President of JanSport for 15 years and made it the largest backpack brand in the world. Now he wants to drive change through sustainable innovation.



Casey Jefson
Director of Sales and Marketing
caseyj@polycoresolutions.com

Casey manages PolyCore's sales and marketing efforts. He joined PolyCore to put his skills to use for the planet. His goal is to work with like-minded brands to have a positive impact on the environment for his family.



(PHOTO HERE)
Swear Cheng
Product Development and Production
swearc@polycoresolutions.com

Swear has been in the textile business for over 20 years and specializes in coating formulations and procedures. He has become an environmentalist focused on water-based polyurethane to eliminate VOC emissions into the atmosphere.



Larry Harrison
VP of Sustainable Partnerships
larryh@polycoresolutions.com

Larry joins PolyCore from a short-lived retirement. This is the second time he has left a life of leisure to accept a challenge. After retiring as the Director of Sales for adidas Terrex he joined the Outdoor Retailer team for six years. He joins the PolyCore team convinced he can prevent more environmental havoc through the introduction of VOC-free waterproof coatings.



Gabriella Whittaker
Director of Brand Management/Sustainability
gabriellaw@polycoresolutions.com

Gabby grew up surrounded by the outdoor industry and earned her bachelor's degree in Environmental and Ocean Sciences. When she joined PolyCore she found a crossroads for her passions of sustainability and the outdoors.



(PHOTO HERE)
Zooney Chao
Development Liaison
zooneyc@polycoresolutions.com

Zooney has spent many years in the textile industry after majoring in Fashion Design. Zooney joined PolyCore to use her knowledge of the industry to promote sustainability. She is the liaison for all project management matters in Taiwan.



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