



Bio-Based Acrylic Emulsions Through Physical Segregation

for a more sustainably
built environment

Sustainability

Product
Offering

Customer
Benefits

About Dow

Advancing a sustainable future

Innovation to create a better tomorrow

At Dow, we are committed to advancing our long-term sustainability ambitions by reducing our reliance on fossil-based raw materials. We work to decouple material production from traditional feedstocks by incorporating bio-based and circular ingredients wherever possible. Through continuous innovation in how we source, manufacture, and deliver our material's portfolio, we empower our customers to reach their sustainability goals—helping to create a more responsible and resilient future.

Renewable materials for increased circularity and a reduced carbon footprint

The trend is clear for all industries, markets and regions - customers are asking for high-quality options with increased focus on sustainability, respect for the environment and safety throughout the lifecycle of a product.

Dow's sustainability focus areas - **climate protection, circular economy, and safer materials** - are integrated throughout the entire building and construction product lifecycle.

Renewable materials
help reduce carbon
footprint and support
the transition to a more
circular economy.

Bio-based materials
offer a viable
alternative to fossil-
based feedstocks and
raw materials.



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Solutions for caulks, sealants and fiber-bonding applications

Equal performance. Enhanced sustainability.

PRIMAL™ and RHOPLEX™ Bio-based Acrylic Emulsions from Dow are partially renewable binders produced through physical segregation, offering a more sustainable solution. These products help reduce the product carbon footprint (PCF) in caulk, sealant, and fiber-bonding applications, while maintaining the excellent performance of traditional acrylic binders - now with an improved sustainability profile.

Our portfolio of Bio-based Acrylics Emulsions³

PRODUCT	APPLICATION	ANALYZED % BCC ^{1,2}
PRIMAL™ A-920 Acrylic Emulsion Polymer RHOPLEX™ A-920 Acrylic Emulsion Polymer	Caulks and Sealants	37%
RHOPLEX™ 1785 Acrylic Emulsion Polymer	Caulks and Sealants	34%
RHOPLEX™ 3805 Acrylic Emulsion Polymer	Caulks and Sealants	32%
PRIMAL™ 2620 Acrylic Emulsion Polymer PRIMAL™ 2620 DS Acrylic Emulsion Polymer RHOPLEX™ 2620 Acrylic Emulsion Polymer	Caulks and Sealants	20%
PRIMAL™ GL-618L Acrylic Emulsion Polymer RHOPLEX™ GL-618 Acrylic Emulsion Polymer	Fiber-bonding	22%
PRIMAL™ ECO-16 Acrylic Emulsion Polymer	Fiber-bonding	21%

¹ BCC- % Biobased Carbon Content ASTM D6866-22 Method B (AMS) TOC, tested by independent laboratories specialized in C14 testing.

² Ratios may be subject to availability of sourced bio-based materials.

³ The graphic representations are presented here for illustrative purposes only and should not be construed as product specifications.

Discover our portfolio of Bio-based Acrylics Emulsions for your region →

REGIONAL AVAILABILITY NOTICE Dow's bio-based acrylic emulsion portfolio varies by region. Brand designations and availability (including both PRIMAL™ and RHOPLEX™) may differ depending on market and regional manufacturing footprint. Not all products shown are available in all geographies. Availability by region can also be viewed on [dow.com](https://www.dow.com) by selecting your location. Please consult your local Dow representative to confirm the portfolio available in your region.



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Improved sustainability profile

This improved sustainability profile reflects the combined benefits delivered by PRIMAL™ and RHOPLEX™ Bio-based Acrylic Emulsions. Together, these attributes demonstrate how a more sustainable choice can still offer uncompromised performance while lowering environmental impact.

RENEWABLE FEEDSTOCK



Up to 37%
biobased
carbon

Sourced from plants,
replacing material
sourced from petroleum

FAVORABLE PRODUCT CARBON FOOTPRINT



Up to 29%
lower carbon
footprint

Considering biogenic
carbon uptake up to
Dow's gate

EQUIVALENT PERFORMANCE



Sustained
standard

Compared to traditional
products, with no
impact on the overall
characteristics

Learn more about our full portfolio of sustainable solutions →

Accelerating a Sustainable Future in Construction Chemicals

At Dow, we combine over 50 years of industry experience with a desire to create a sustainable future for all.

Discover our Construction Chemical portfolio with a reduced carbon footprint resulting from our lower GHG emissions in our processes and operations. See how our portfolio helps decarbonize your products through efficient use of resources and materials.

Contact us →



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Dow (NYSE: DOW) is one of the world's leading materials science companies, serving customers in high-growth markets such as packaging, infrastructure, mobility and consumer applications. Our global breadth, asset integration and scale, customer-focused innovation and leading business positions enable us to achieve profitable growth and help deliver a sustainable future. We operate manufacturing sites in 29 countries and employ approximately 34,600 people. Dow delivered sales of approximately \$40 billion in 2025. References to Dow or the Company mean Dow Inc. and its subsidiaries. Learn more about us at www.dow.com.

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