



## Dow Construction Chemicals

# You Asked... We Delivered!

Leading the Way in High Performance Coatings for Specialty Mat Applications

## Better Building Starts Here



Isofoam  
Board Facers  
Gypsum Facers  
Carpet Tile  
Reinforcements  
Roofing Applications  
Battery Separators  
Flooring Applications  
Office Partitions  
Automotive Surfacing  
Agricultural Veils  
Duct Liners  
Duct Wraps  
Ceiling Facers



### You Asked...

**For quality end-product attributes** that meet specific needs, including polymers that provide the right balance of the key characteristics essential to particular coating mat applications. Water transmission, porosity, hydrophobicity, coating flexibility, paintability and UV resistance are just a few of the attributes you want to optimize.

**For robust and versatile polymers** that allow trouble-free manufacturing; for polymers that are easy to formulate, stable and synergistic with other ingredients; and for reproducible formulations that allow fast line speeds and no foaming issues.

**For environmentally advanced coatings** that meet stringent indoor air quality standards and deliver the safety profile your customers are looking for. We developed cost-effective, easy-to-apply coatings with low VOC levels for each unique specialty mat application.

**For reliability of supply** that gives the peace of mind needed to conduct business in today's challenging environment. You want assurance that your products can be manufactured in multiple locations and with the same high-quality standards.

### We Delivered!

**An extended product line of coatings polymers engineered for specialty mat applications.** Uniquely designed polymers that deliver the properties you want for the multiple markets you serve. Whether you are concerned about VOC levels and paintability for an interior application, or hydrophobicity and vapor permeability for an exterior one, Dow Construction Chemicals can help you choose – or design – the product that is right for you.

**An experienced technical support and R&D team solely devoted to the high performance nonwovens market.** The team has extensive experience in polymer design, coating formulation and specialty mat processes and we'll work with you to engineer a product that meets your technical and commercial targets.

**A line of environmentally advanced binders and coatings for glass mat applications.** We continue to expand our offering of ultra-low formaldehyde latex grades for coating applications.

**An expansive manufacturing footprint for acrylic emulsions in the U.S.** We have multiple plants capable of making high-performance coatings polymers for the industrial mat industry.

## High-Performance Nonwovens – Specialty Mat and Coatings Vehicles Selection Guide

Product	Uses	Benefits				
RHOPLEX™ E-940	<ul style="list-style-type: none"> <li>Specialty coating vehicle for high humidity exposure</li> <li>Styrenated acrylic copolymer</li> </ul>	<ul style="list-style-type: none"> <li>Exceptional hydrophobicity</li> <li>Excellent balance of soft hand strength and water resistance</li> <li>Highly durable</li> </ul>				
RHOPLEX™ NW-1845K	<ul style="list-style-type: none"> <li>Most versatile specialty coating vehicle</li> <li>Ideal for indoor applications</li> <li>Styrenated acrylic copolymer</li> </ul>	<ul style="list-style-type: none"> <li>Ultra-low formaldehyde</li> <li>Versatility</li> <li>Formulation flexibility</li> <li>Hydrophobicity</li> </ul>				
RHOPLEX™ AC-1034	<ul style="list-style-type: none"> <li>Coating vehicle for high-humidity exposure</li> <li>Styrenated acrylic copolymer</li> </ul>	<ul style="list-style-type: none"> <li>Excellent water resistance</li> <li>Hydrophobicity</li> <li>Flexibility</li> </ul>				
RHOPLEX™ EI-2000	<ul style="list-style-type: none"> <li>Multipurpose specialty coating vehicle</li> <li>All-acrylic polymer</li> </ul>	<ul style="list-style-type: none"> <li>Exceptional exterior durability</li> <li>Excellent water resistance</li> <li>Formulation flexibility</li> </ul>				
RHOPLEX™ AC-630	<ul style="list-style-type: none"> <li>Specialty coating vehicle for exterior applications</li> <li>All-acrylic polymer</li> </ul>	<ul style="list-style-type: none"> <li>Toughness</li> <li>Water resistant</li> <li>Formulation flexibility</li> </ul>				
RHOPLEX™ EI-6000	<ul style="list-style-type: none"> <li>Specialty coating vehicle for exterior applications</li> <li>All-acrylic polymer</li> </ul>	<ul style="list-style-type: none"> <li>Superior exterior durability</li> <li>Excellent water resistance</li> <li>Excellent adhesion</li> </ul>				
RHOPLEX™ AC-2612	<ul style="list-style-type: none"> <li>Multipurpose specialty coating vehicle</li> <li>All-acrylic polymer</li> </ul>	<ul style="list-style-type: none"> <li>Exterior durability</li> <li>Hydrophobicity</li> <li>Wet and dry adhesion</li> <li>Formulation flexibility</li> </ul>				
RHOPLEX™ E-693	<ul style="list-style-type: none"> <li>Specialty coating vehicle ideal for solvent exposure and filtration applications</li> <li>Modified acrylic polymer</li> </ul>	<ul style="list-style-type: none"> <li>Good solvent resistance and high strength</li> <li>Exceptional solvent resistance</li> <li>High mechanical stability</li> <li>Good formulation versatility</li> </ul>				
RHOPLEX™ AC-3001	<ul style="list-style-type: none"> <li>Specialty coating vehicle for exterior applications</li> <li>All-acrylic polymer</li> </ul>	<ul style="list-style-type: none"> <li>Water-resistant thermoplastic</li> <li>Excellent resistance to water pickup</li> <li>Reduced water vapor permeability</li> <li>Early block resistance</li> </ul>				
Product	Tg °C	pH	Viscosity cP	Solids %	Ionic Charge	Crosslinking Mechanism
RHOPLEX™ E-940	-20	9.5	150	45.0	Anionic	Self Crosslinking
RHOPLEX™ NW-1845K	-21	6.7	85	44.0	Anionic	Crosslinkable
RHOPLEX™ AC-1034	13	6.8	500–2000	47.0	Anionic	Self Crosslinking
RHOPLEX™ EI-2000	13	9.3	10–300	46.5	Anionic	Crosslinkable
RHOPLEX™ AC-630	25	9.5	1000 max	50.0	Anionic	Crosslinkable
RHOPLEX™ EI-6000	25	8.0	50–1500	45.5	Anionic	Crosslinkable
RHOPLEX™ AC-2612	27	8.9	1000 max	50.0	Anionic	Crosslinkable
RHOPLEX™ E-693	30	5.5	60	50.0	Anionic	Self Crosslinking
RHOPLEX™ AC-3001	32	8.4	350	48.0	Anionic	Crosslinkable

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