



OMNOVA  
SOLUTIONS INC.

| Performance Chemicals

For more than half a century, OMNOVA Solutions has been a leading innovator of emulsion polymers and specialty chemicals that are used as binders, coatings, adhesives and additives in a variety of applications. These distinctive ingredients strongly influence the quality, appearance and functionality of the products people use at work, at home and at play.

We pride ourselves in delivering customized solutions, drawing upon a wide range of chemistries – from our particular strength in styrene butadiene latexes to a robust and growing portfolio of acrylic emulsions, bio-based polymers, hollow plastic pigments, resins, waxes, lubricants, insolubilizers, opacifiers, finishes and other novel, proprietary offerings.

Our development efforts are supported by a state-of-the-art Pilot Plant where new products and processes can be optimized and smoothly transitioned to one of five domestic production facilities or to one of our manufacturing partners in Europe or Asia. Capabilities also include application-specific resources such as our multimillion-dollar Pilot Paper Coater, which allows us to conduct product trials under realistic paper mill operating conditions.

Responsiveness is key to our success. When customers work with OMNOVA's Performance Chemicals team, they interact with top scientists and technicians in an environment rich in innovation. They receive the best in technical service from our seasoned and attentive industry experts in the field. And they can be confident in partnering with a company committed to the American Chemistry Council's Responsible Care® program, which focuses on safe chemical development, manufacturing, transportation, use and disposal.





Glossy magazines, catalogs and specialty shopping bags are just a few of the products made from paperboard coated with OMNOVA polymers.

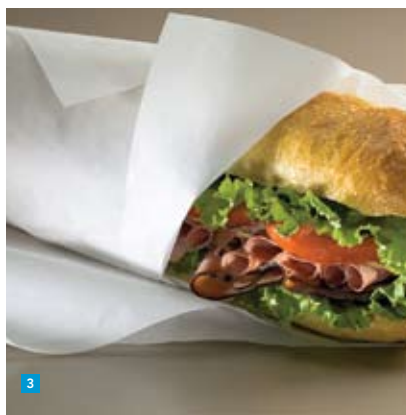
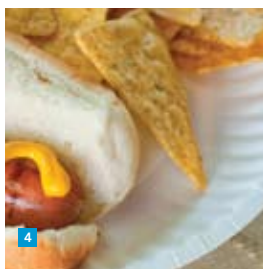
## Chemicals for Paper and Paperboard

Coatings are a focal point – and an area of unique competency – within OMNOVA’s diverse offering of polymers and process chemicals used in the making of paper and paperboard. Our products add critical features such as gloss, strength, brightness, stiffness, dimensional stability, opacity, resistance to moisture and enhanced printability. From our GenCryl Pt® high performance latex, which has become the standard to which all paper coatings aspire, to the development of our ECOkote™ bio-based polymer, OMNOVA is known in the paper industry for delivering the finest in technical innovation.

Our products help coated paperboard packaging maintain its integrity through extensive handling or exposure to moisture and cold temperatures, and they provide the ultimate surface for printing a strong brand message. The portfolio includes offerings that comply with FDA and related international standards for food contact.



Specialty papers bring a unique and often complex set of performance requirements, and OMNOVA works with customers to provide ideal solutions. Examples include **1** release papers that allow items such as stickers or adhesive bandages to peel away easily from their backings, **2** thermal papers that withstand the heat of cash registers and office machines, **3** barrier papers that protect food products, and **4** sized-papers that give shape to paper plates and cups.



## Chemicals for Specialty Applications

The specialty chemicals category presents endless opportunities for OMNOVA to put our ingenuity and deep technical capabilities to work. Each end use has very specific requirements and, in many cases, customers are seeking technologies that can take performance to a level never before achieved. OMNOVA helps customers reach these goals through a highly collaborative approach that draws from our broad chemical portfolio. In addition, we can meet their needs on a global basis, ensuring consistent quality from a supply partner committed to their success.



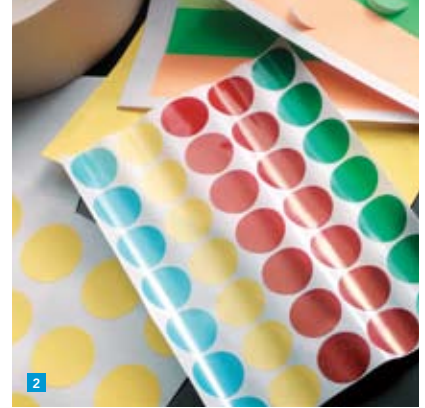
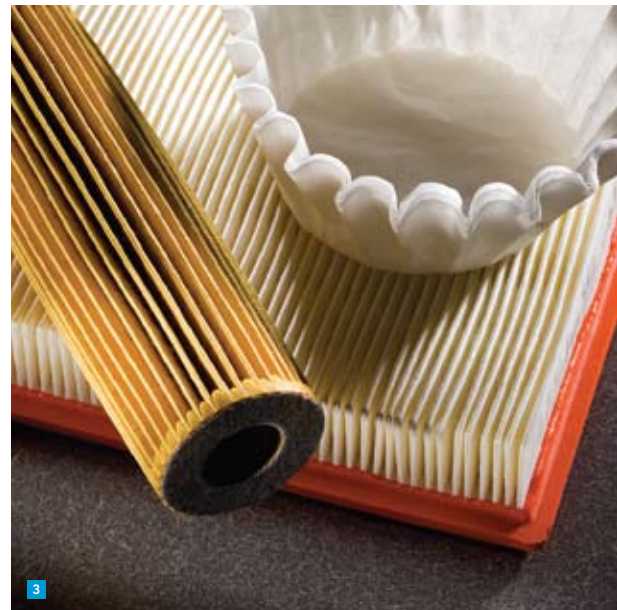
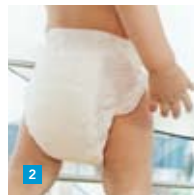
### Floor Care

Our polymers and fluorosurfactants go into industrial and consumer floor care products such as polishes, providing high gloss, low maintenance, easy mop glide and excellent wear, as well as exceptional flow, leveling and wetting of the formulated polish. With the ability to deliver key “green” attributes in many of our products – low/no heavy metals, water-based systems, no PFOA – OMNOVA can help our customers meet strict international standards and achieve third-party recognition for their environmentally preferred formulations.



### Nonwovens

OMNOVA’s customized solutions for consumable nonwovens provide a variety of performance advantages. **1** Wipes and towels make use of OMNOVA’s no/low formaldehyde chemistries. **2** OMNOVA has clear technology leadership in disposable hygiene products, imparting excellent fluid transmission and superior wet and dry strength properties to the component nonwoven fabric. **3** Our products for filtration provide superior pleatability, strength and transport properties. **4** Health care professionals rely on garments such as caps and masks made with polymers that provide just the right elasticity for limited-use applications. **5** OMNOVA’s saturants help maintain dimensional stability in the visors of caps and the insoles of athletic shoes.

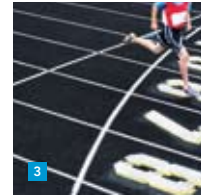


### Tapes/Adhesives

**1** OMNOVA supplies all three major components used in painter's tape: The saturant that provides integrity to the base paper, the tape adhesive layer, and the release coating that allows the paper to be peeled back from the roll at a tailored rate of resistance. **2** OMNOVA's broad portfolio of label adhesives allows for many levels of hold and resistance. OMNOVA is a member of the Tag & Label Manufacturers Institute, Inc. **3** OMNOVA offers water-based, APE-free removable pressure sensitive adhesives, an environmentally preferred solution for a growing end use category.

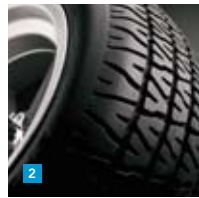
## Construction

**1** Moisture barrier, strength, stability – These are just a few of the performance characteristics offered by our portfolio of building products for end uses that include exterior sheathing, concrete blocks and sealers, roofing shingles, primer coatings, tapes and more. **2** Land- and sea-based oil and gas drilling operations utilize OMNOVA products – including those containing bio-based polymers – in their drilling, cementing and fracturing processes where effectiveness under high temperature, high salt and particularly rugged conditions is critical. **3** As a member of the American Sports Builders Association, OMNOVA is a major supplier to the sports surfaces market, with latex binders and acrylic top coats used in the production of running tracks and tennis courts.



## Textiles

OMNOVA was a pioneer in the textile industry and continues to serve key applications where we have unique competencies and global capability. **1** Products for clothing and furnishings include fabric finishes such as softeners, durable press resins, soil release and fluid repellent systems. **2** Our vinyl pyridine emulsions are used on synthetic fabrics that help provide structure to automotive tires and other rubberized goods, imparting excellent adhesion of the fabric to the rubber.



## Personal Care

OMNOVA's opacifiers are designed to make liquid soaps, cleaners and cosmetic products opaque. They are particularly popular in Europe, where a luxurious, lotionized appearance is highly prized.



## Printing/Graphic Arts

**1** OMNOVA serves the flexographic and gravure printing industries with ink and coating vehicles that offer such features as crinkle resistance and high humidity tolerance. **2** OMNOVA's environmentally preferred fluorochemicals are used in digital printing inks to enhance color consistency and ink flow under high-heat conditions.

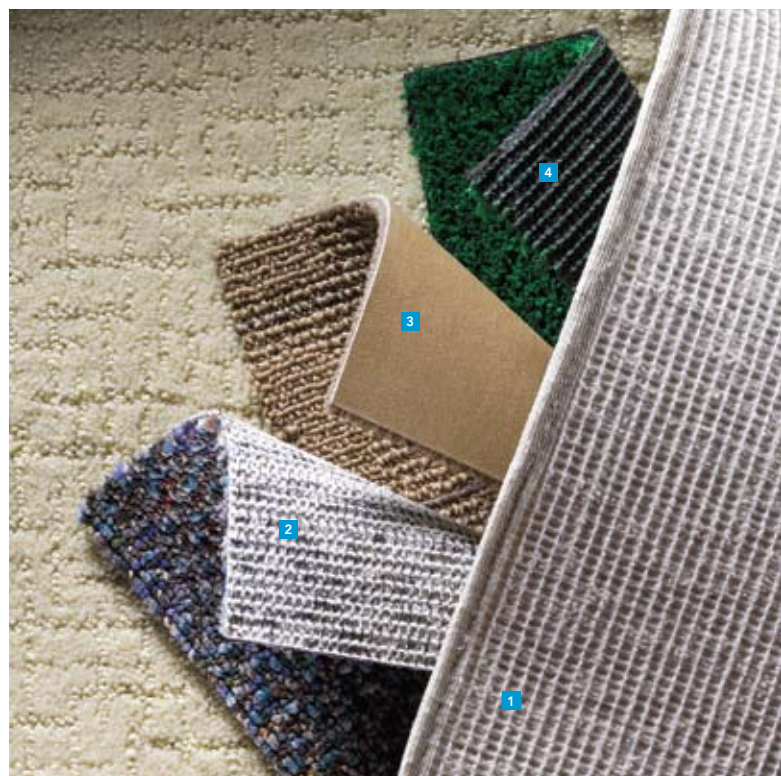


## In-Mold Coatings

The expanded use of molded plastic and composite components as substitutes for metal in automotive, heavy truck and marine/recreational vehicles inspired OMNOVA to develop primer and appearance coatings that can be applied in the molding process, delivering a Class A finish in fewer steps. This reduces the customer's overall cost.

## Chemicals for Carpet

OMNOVA's carpet- and rug-backing polymers provide excellent fiber adhesion and properties that enhance the performance of installed carpet. We have long been a leading player in the residential carpet market, and new value-added product innovations are providing customers with unique solutions for commercial broadloom, tile and novelty applications. Our products offer multiple advantages for an increasingly environmentally aware industry. For example, our NovaGreen™ high solids, low odor emulsion polymer can reduce the energy consumed in manufacturing carpet and provide for the increased use of recycled materials.



**1** OMNOVA meets the requirements of a discerning consumer market with products that promote ease of installation, low odor and long wear. **2** **3** The needs of the commercial marketplace are as diverse as the spaces in which the carpet will be installed – hotels, offices, medical buildings and retail outlets, to name a few. Features such as water resistance and durability through frequent cleaning are important and, increasingly, the ability to recycle the product components after a useful life is also desired. Broadloom and tile carpet products make use of a variety of backing types, so OMNOVA's ability to provide customization and access to a wide range of chemistries offers attractive advantages to our customers. **4** Novelty carpets and rugs, such as indoor/outdoor and faux-grass, present opportunities for further growth in OMNOVA's carpet chemicals product line.

## Major Brands/Chemistries

GenCal® styrene butadiene emulsions  
GenCeal® carboxylated styrene butadiene emulsions  
GenFlo® carboxylated styrene butadiene emulsions  
GenFlo® non-carboxylated styrene butadiene emulsions  
GenCryl® styrene butadiene acrylonitrile emulsions  
GenCryl Pt® high strength styrene butadiene acrylonitrile emulsions  
NovaGreen™ high solids emulsion polymers  
Omna-Glo™ styrene butadiene emulsions  
OmnaTuf® styrene butadiene emulsions  
GenTac® styrene butadiene vinylpyridine emulsions  
ECOkote™ styrene butadiene emulsions with bio-based polymer  
AcryGen® acrylic and styrene acrylic emulsions  
Mor-Flo® styrene acrylic copolymer emulsions  
Mor-Glo® styrene acrylic copolymer emulsions  
NM® zinc-free, styrene acrylic copolymers  
Omnapel® hydrophobic acrylic copolymers  
Sequabond® styrene acrylic emulsions  
SunCryl® vinyl acrylic and vinyl acetate emulsions  
Lytron® polystyrene emulsion opacifiers  
NovaCryl™ acrylic emulsion adhesives  
OmnaBloc® proprietary terpolymer system  
Sunbond® vinyl acrylic emulsions  
Mykon® lubricants  
OmnaFlow Au™ 100% active polyglyceride lubricants  
Sequaflow® polyglyceride lubricants  
Sunkem® nonionic polyethylene lubricants  
Sunkote® calcium stearate lubricants  
Sequarez® polyol carbonyl adduct insolubilizers  
Sunrez® cyclic amide condensate insolubilizers  
Sequapel® stearylated melamine wax sizing agents  
Sequapel® fluorochemical and wax emulsions  
PolyFox™ fluorochemicals  
X-Cape® fluorochemical emulsions  
Permafresh® glyoxal resins  
Sedgeres™ glyoxal resins  
Mykosil® silicone emulsions  
Mykosoft® organic emulsions  
Mykowick™ hydrophilic comfort finishes  
GenGlaze® coatings  
StyleCoat® coatings  
HS hollow plastic pigment

## OMNOVA Solutions

Few companies touch as many aspects of everyday living as OMNOVA Solutions. Through our two business units – Performance Chemicals and Decorative Products – we help provide that extra measure of value that differentiates our customers' products in a wide array of applications across a global marketplace.

Close collaboration with customers is a hallmark of how we do business at OMNOVA. It has enabled us to continually identify, develop and manufacture exciting innovations for end-use markets we have served for decades, as well as grow in an expanding list of new, adjacent markets that leverage our capabilities.

A focus on globalizing our Company has enabled us to deliver products and services that consistently reflect our commitment to performance, quality and value to more than 60 countries around the world from our strategically located assets in the United States, Europe, the Middle East and Asia. Global purchasing and logistics support our efforts, providing broad, cost effective access to key raw materials.

OMNOVA Solutions has operated as an independent company since 1999, but our roots date back to 1915 and our former parent, the General Tire and Rubber Company. We are guided by a strong set of Core Values, and our use of LEAN SixSigma continuous improvement methodologies ensures a disciplined approach to eliminating waste, streamlining operations and focusing all of our resources on what matters most: Serving customers. Importantly, our commitment to sustainability adds a critical dimension as we strive to reduce the environmental footprint of our processes and products, and help build strong plant communities through the volunteerism of our talented associates and the work of our charitable Foundation.

**Imagine**  
what we  
can do  
together.

# Imagine

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