

ELEMENTIS

Adding Future

Automotive Coatings Innovation Solutions: Elements Drives Green Transformation



GLOBAL AUTOMOTIVE COATINGS INNOVATION SOLUTIONS

The Future Path of Environmental Protection, High Performance, and Intelligence

With increasingly stringent global environmental regulations and evolving consumer demands, the automotive coatings industry is undergoing profound changes. As a leader in the specialty chemicals sector, Elementis is committed to providing low-VOC, high-performance coating additives and resins to help automotive manufacturers achieve carbon neutrality goals and enhance production efficiency. This brochure outlines industry trends and Elementis' innovative products to help you seize market opportunities!

A wide-ranging, advanced technology portfolio

Our additives cover most formulation requirements in industrial coatings, including various functional additives such as rheological modifiers, wetting and dispersing agents, defoamers, slip and levelling agents, adhesion promoters, and specialty additives, providing comprehensive formulation solutions. Their exceptional performance meets the diverse needs of the industrial coatings sector and has earned widespread recognition from customers.

Based on our deep understanding of rheology and extensive experience in coating formulations and applications, we have developed product series such as BENTONE®, THIXATROL®, M-P-A®, RHEOLATE®, NUOSPERSE®, DAPRO® and SUPREAD™. These products enable precise control over the flow properties and overall performance of coating formulations, not only consistently exceeding industry standards but also driving innovation across the entire industry.

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BENTONE®

Rheological additives based on natural hectorite clay that can provide excellent thixotropy, anti-sag and anti-settling properties and improve homogeneity and surface properties.

THIXATROL®

Rheological additives based on polyamide and EVA waxes that can impart thixotropic flow, anti-sag and anti-settling properties, contributing for the improvement of metallic pigment orientation by steric hinderance effect.

M-P-A®

Anti-settling agents that inhibit the settling of pigments and fillers and prevent the occurrence of hard sedimentation for an improved stability on storage.

RHEOLATE®

Alkali swellable thickeners (ASE / HASE) and nonionic synthetic associative thickeners (NiSAT) that allow achieving any desired rheological profile in water-based systems.

NUOSPERSE®

Wetting and dispersing agents designed to control viscosity, improve the dispersibility, provide a good stabilization of fillers and organic and inorganic pigments, even in highly loaded formulations, ensuring appropriate viscosity levels and improved long-term system stability.

DAPRO®

Anti-foaming and defoaming agents are effective in providing air release and bubble breaking. They help to ensure smooth application and better surface appearance by minimizing surface defects.

SUPREAD™

Surface active additives used to promote substrate wetting, eliminate or reduce film defects and help to ensure uniform film formation.

HYPOMER

HYPOMER functional resin serves as the primary film-forming component, not only delivering the coating's key physical and chemical properties, but also meeting diverse appearance requirements for automotive coatings in terms of color, gloss, and other visual effects.

What You Can Achieve with Our Additives



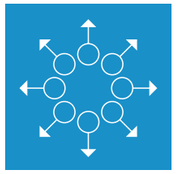
Low VOC


Flow & Leveling


Bio-based


Wetting


Hardness


Dispersion


Low Foaming


Anti-settling/sedimentation


Anti-floating/flooding


Flexibility


Adhesion


Color Development


Sag Resistance


Corrosion Resistance


Impact Resistance


Weatherability

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Auto-OEM Coatings: From “Scale Efficiency” to “Green + Functional” Dual-Driven Growth

Auto-OEM coatings are one of the key materials in automotive manufacturing, not only providing a vibrant appearance for vehicles but also ensuring long-lasting protection for the car body. Elementis’ product solutions are closely aligned with the dual trends of “water-based” and “functionalization,” helping OEMs enhance performance, reduce costs, and improve efficiency.

Accelerated Water-Based Transition: A Preferred Choice Under Environmental Regulations

Major global markets (e.g., EU, China, USA) have implemented stricter VOC emission limits, such as EU IED 2.0, U.S. EPA standards, and China’s GB30981.2-2025 regulations, driving water-based coatings to become the mainstream.

Waterborne coatings, while delivering substantial VOC reductions, still face operational challenges—particularly higher drying energy consumption, which often requires elevated temperatures or longer drying times. To address this, OEMs have adopted process optimizations including infrared/hot-air combination drying, electrostatic spraying (which boosts coating utilization to over 85%), and robotic precision spraying. These improvements have effectively balanced environmental benefits with cost efficiency. As a result, waterborne coating technology has reached a high level of maturity and is now widely accepted and extensively used in auto-OEM applications, demonstrating its reliability and performance.

Elementis continuously focus on R&D of green products, helping coating customers reduce VOC, especially in water-based products, with solutions based on a diverse portfolio. As a leader in rheology, we offer unique hectorite rheological additives, non-ionic associative thickeners, hydrophobically modified alkali-swellable thickeners, water-based polyamide waxes, and water-based EVA waxes etc.

BENTONE® Hectorite: A Powerful Rheological Additive Based on Natural Materials

Elementis’ BENTONE® Hectorite rheological additive is a unique natural material modified to achieve varied rheological properties, meeting diverse formulation needs. Under high shear, its silicate layers disperse rapidly in water, forming an open 3D gel network. This structure provides excellent thickening and thixotropy, maintaining high viscosity at rest and good flow under shear for complex application requirements.

Hectorite vs Bentonite

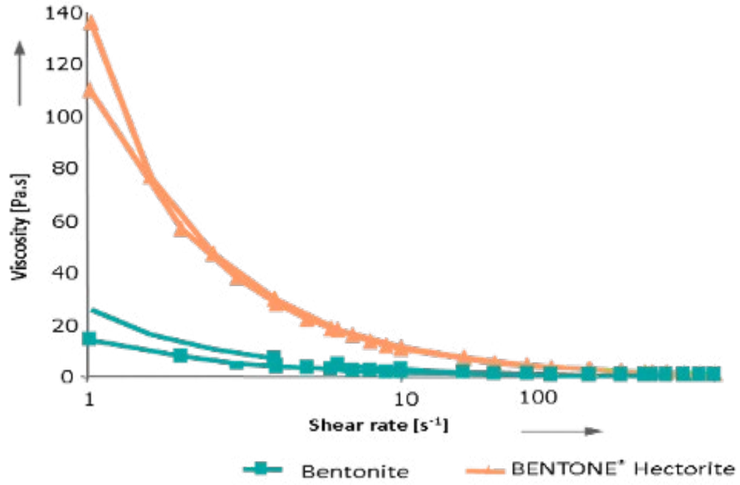


FIGURE 1: Rheological behaviour provided by Bentone Hectorite clay versus bentonite clay.

As shown above, compared to conventional bentonite, BENTONE® Hectorite grades offer superior shear-thinning and rapid recovery, enhancing anti-sagging, anti-settling, pigment suspension, and storage stability.

RHEOLATE® Non-Ionic Associative Polyurethane Thickener

NiSAT is the abbreviation used by Elementis to designate the family of **N**on-**i**onic **S**ynthetic **A**ssociative **T**hickeners.

This class of thickeners consists mainly of nonionic copolymers. Their structure can be described as a minimum of two hydrophobic groups chemically bonded to a hydrophilic backbone. The water-soluble part of this pH-independent polyurethane-based chemistry provides adjustable viscosity build across the whole shear rate range, enabling to meet application properties such as flow and levelling, and sag resistance.

The impact in the final film aesthetics and in its water and weather resistance of this class of thickeners is minimal, making it suitable for all types of waterborne systems.

Basically, these thickeners act by the interaction of their hydrophobic end groups with other hydrophobic groups present in the formulation such as in the binder and pigment particles surfaces, but also with themselves, resulting in the formation of a network that builds the final rheological properties in the final coating.

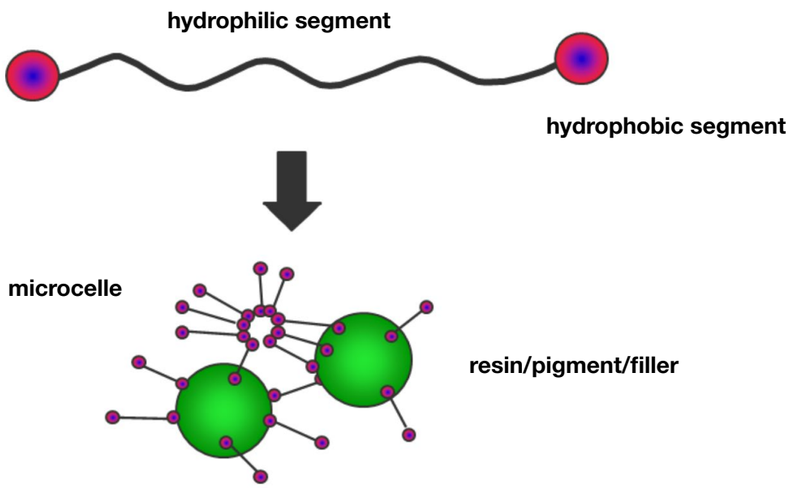


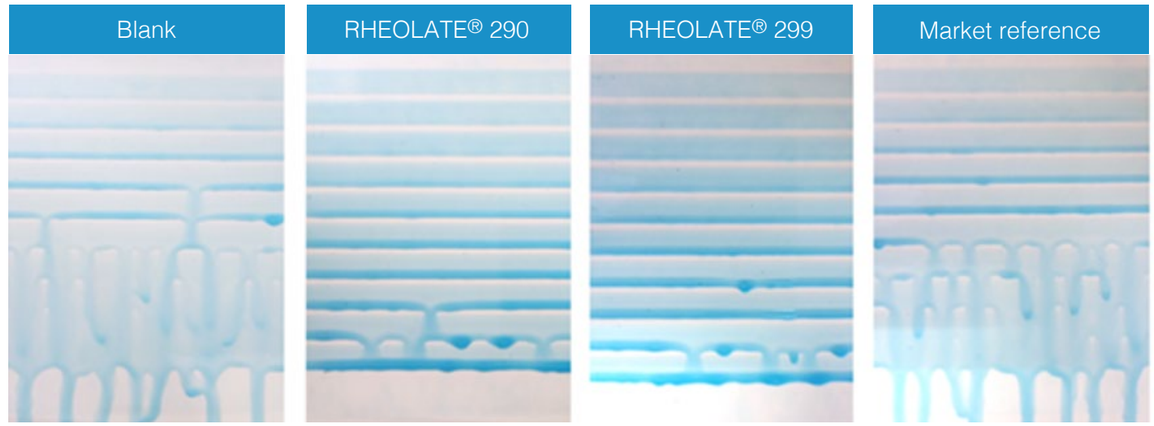
FIGURE 2: Generic structure and mechanism of action of Non-Ionic Associative Polyurethane Thickeners.

Water-based automotive coatings are typically applied via spraying, requiring strong shear-thinning for good atomization and fast viscosity recovery for vertical application. Metallic paint systems also need high thixotropy for better orientation effect. Low-shear thickeners are pivotal to achieve such properties.

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RHEOLATE® 290 and RHEOLATE® 299 - Polyurethane Associative Rheological Additives: Unmatching benchmarks in Low-Shear Thickening

RHEOLATE® 290 and RHEOLATE® 299 set a new benchmark in rheology control, delivering exceptional low-shear thickening efficiency and excellent shear-thinning performance for superior application properties in spray-applied coatings across all gloss levels. RHEOLATE® 290 further enhances formulation robustness by reducing co-solvent sensitivity and improving the orientation of metallic effect pigments, such as aluminum flakes and pearlescent pigments, resulting in enhanced aesthetics and premium finish quality.



Results obtained with the addition of 0.125% of active load into a PUD clear coat.

FIGURE 3: Outstanding anti-sag resistance properties delivered by RHEOLATE® 290 and RHEOLATE® 299.

Functionalization and Customization: Meeting Lightweighting and Personalization Needs

Lightweight materials (e.g., aluminum alloy, carbon fiber) require coatings with better wetting and adhesion.

SUPREAD™ series are composed of substrate wetting agents that significantly improve wetting of difficult-to-wet materials, preventing film defects like cratering and crawling and enhancing adhesion.

SUPREAD™ 3410 Water-Based Substrate Wetting Agent: Effectively reduces surface tension and minimizes surface defects.

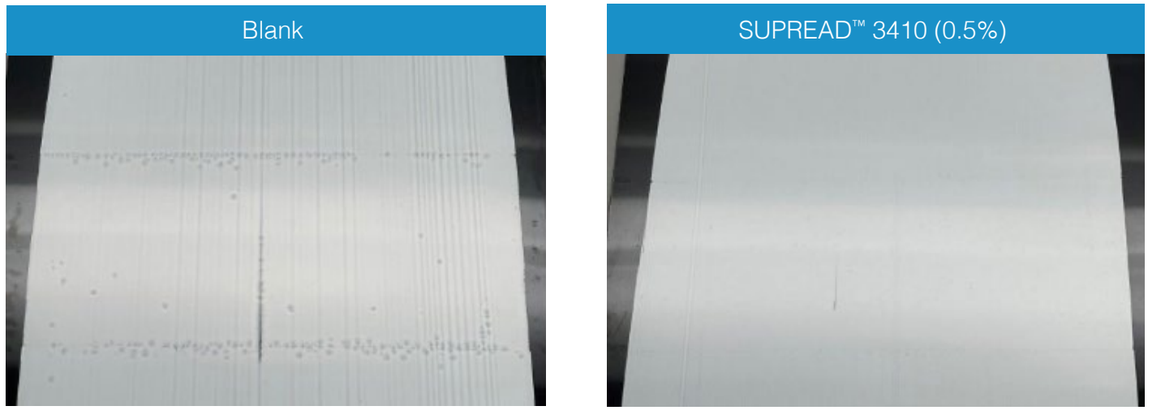


FIGURE 4: The substrate wettability of SUPREAD™ 3410 (0.5%).

NUOSPERSE® FX 7500W High-Molecular-Weight Water-Based Wetting Dispersant: Reduces viscosity, improves tinting strength, and prevents floating and flooding.

NUOSPERSE® Multi-Functional Dispersant: Eco-safe (APEO-free, low VOC), promotes a fast and efficient pigment wetting, enhances hiding power and color saturation and prevents pigments re-flocculation.

Personalization trends (e.g., gradient colors, pearl effects) drive coatings toward higher dispersion precision.

With the rapid proliferation of new energy vehicles, the automotive market is undergoing profound transformation. Notably, the younger generation has become the main group of car buyers. They are no longer satisfied with uniform appearances and instead seek highly distinctive personalized colors. This consumer trend presents a significant challenge for OEM paint manufacturers: On one hand, to keep pace with automakers' increasingly accelerated launch cycles, paint manufacturers must complete research, development, and approval of new colors within extremely short timeframes. On the other hand, while pursuing speed, it is essential to ensure that newly developed colors deliver stable performance to meet stringent industrial production standards. To address these needs, Elementis has developed a series of products to help paint producers quickly respond to automakers' requirements and efficiently solve the challenge of achieving both unique colors and reliable performance.

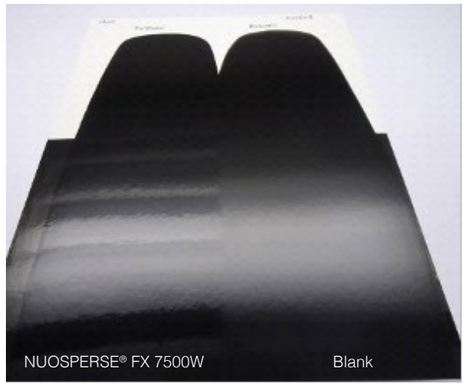


FIGURE 5: The color dispersion ability of NUOSPERSE® FX 7500W for high-jetness carbon blacks pigments.

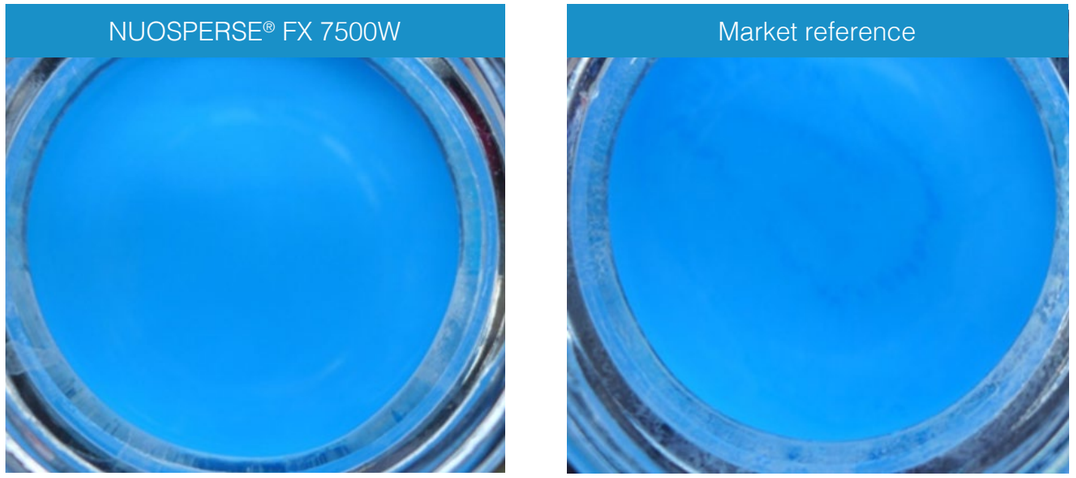


FIGURE 6: Excellent anti-floating and anti-flooding properties of NUOSPERSE® FX7500W in multi-pigment paints.

THIXATROL® P2100W Water-Based Polyamide Wax Paste: Provides rheology and spatial hindrance for metallic pigment orientation, enhancing flip-flop effects.

Metallic effect coatings are increasingly used, but water-based systems face challenges due to slow water evaporation. Wax products can enhance the thixotropy of coatings and exert spatial steric hindrance effects, enabling formulators to achieve more outstanding metallic effects. Commonly used wax products include water-based polyamide wax pastes and water-based EVA wax emulsions.

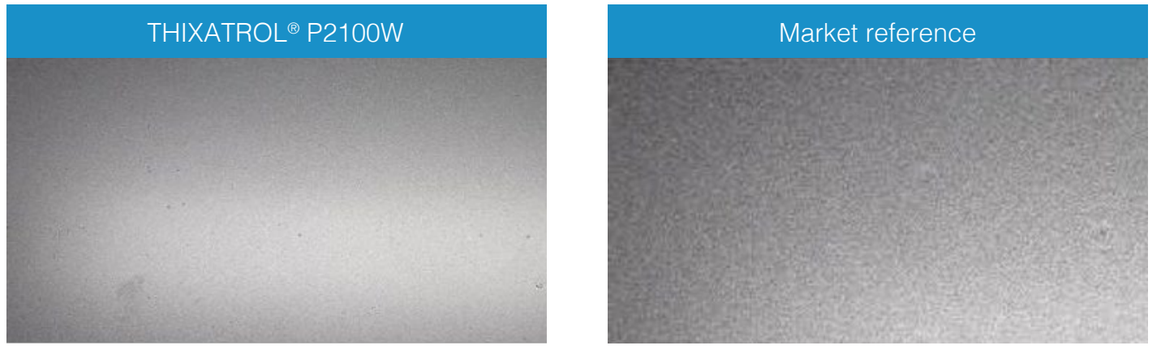


FIGURE 7: THIXATROL® P2100W effectively improves the orientation of metallic pigments

THIXATROL® 5050W Water-Based EVA Wax Paste: Provides spatial hindrance for metallic pigment orientation, less impact on viscosity and post thickening.

With the shortening of the new vehicle release cycle, the development of water-based metallic coatings faces higher requirements, especially in terms of the orientation of metallic pigments, the uniformity of the paint film, and the stability of the application. In response to this, Elementis, leveraging its technical expertise in the water-based system, has launched a new generation of products, which include THIXATROL® 5050W, a water-based metallic pigment orientation additive. This product is based on spatial steric hindrance technology and is specifically designed for water-based metallic coatings, helping automotive coating manufacturers and formula designers develop formulas more quickly and efficiently.

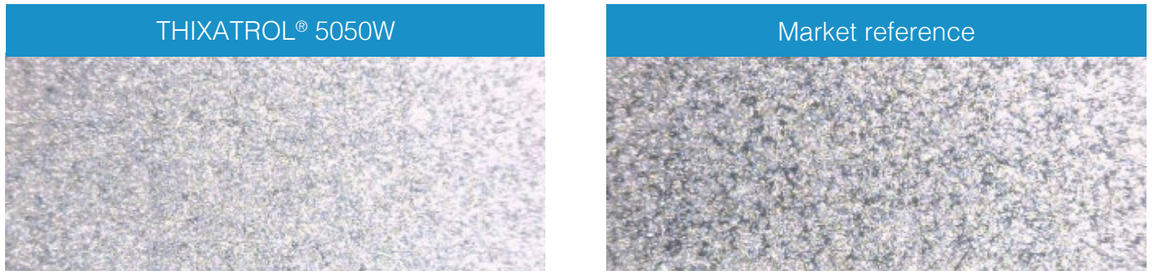
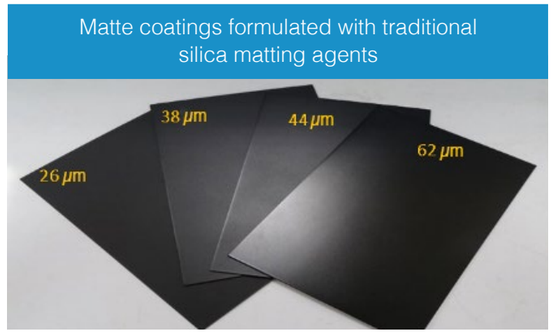


FIGURE 8: The aluminum pigment orientation effect of THIXATROL® 5050W

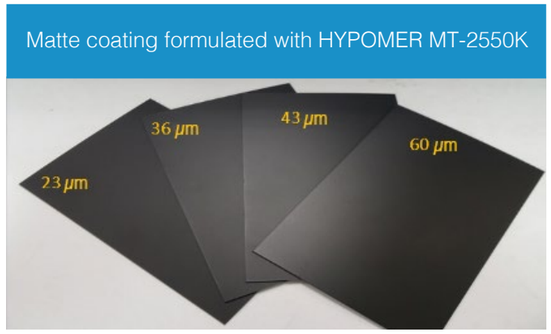
HYPOMER MT Series Matte Hydroxy Acrylic Resins: Break through tradition and create high-end matte coating

In recent years, matte automotive coatings have rapidly become a new trend in the automotive painting industry. As consumers' demands for personalization and high-end texture continue to rise, matte finishes have gradually expanded from high-end sports cars and concept vehicles to more mainstream models. Compared to traditional glossy paints, matte coatings not only can showcase the strength of vehicle lines but also effectively conceal minor scratches and enhance overall durability. Major automobile manufacturers and coating suppliers have also increased their research and development investment in matte coating technology, offering more color and effect options to meet the market's demands for personalization, high performance.

Using the HYPOMER MT series of matte resins, an excellent matte effect can be achieved without adding any matte silica. It also possesses high transparency, consistent gloss across different film thicknesses, as well as excellent scratch resistance and chemical resistance. Compared to traditional silica matte agent, it represents a qualitative leap, providing a high-end and luxurious visual effect as well as outstanding performance.



	26 µm	38 µm	44 µm	62 µm
Gloss/60˚	2.1	3.9	6.2	16
Gloss/85˚	6	7.2	11.1	30.4



	23 µm	36 µm	43 µm	60 µm
Gloss/60˚	2.4	3.4	4.5	5.6
Gloss/85˚	11.6	12.3	13.4	15.8

FIGURE 9: HYPOMER MT-2550K shows the consistency of gloss under different film thicknesses



FIGURE 10: PET films coated with matte clear coats highlighting the excellent transparency delivered by Hypomer MT-2550K in comparison to a traditional system containing matting silica agent.

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Car Refinish Coatings: From “Environmental Upgrade” to “Rapid Application + High Match” Breakthroughs

Car refinish coating is mainly used in the automotive after-sales repair sector, such as accident vehicle restoration and scratch treatment. Its market size is approximately one-third of that of Auto-OEM paint. In this field, while pursuing high application flexibility, it also faces increasingly strict environmental regulations challenges. Elementis, through its innovative additive solutions, helps the formulation of car refinish coating to reduce VOC emissions while maintaining excellent application performance, promoting the industry towards a more sustainable direction.

Quick application and Precise Matching: Dual Assurance of Efficiency and Quality

In the field of rapid vehicle repair, efficiency is the key to competitiveness, and time is the measure of customer satisfaction. In response to the urgent application requirements in repair scenarios, the refinish paint must be able to be applied shortly after mixing, dry fast and present excellent intercoat adhesion, ensuring an efficient, reliable and flawless repair process.

In order to overcome this industry challenge, Elementis relied on its long-term technical expertise in the car refinish coating field and successfully developed HYPOMER FS-3566F, an hyperbranched hydroxy acrylic resin specifically designed for fast-drying performance.

HYPOMER FS-3566F Its molecular termini are rich in reactive functional groups, which allow accelerating significantly the drying time of the coating applied, and simultaneously provide excellent aesthetic properties for a superior repair effect.

Water-Based Transition: Core Path for Environmental Upgrade

Water-based refinish coatings (e.g., waterborne acrylic/PUA basecoats, polyurethane clearcoats) are replacing high-VOC solvent-based products.

To further meet the higher requirements of water-based refinish coatings in terms of application performance, fluidity and paint film appearance, Elementis has continuously innovated. By leveraging our advanced products and technologies, we provide a wide range of rheology additives, achieving full shear viscosity response capability. These additives can create precise and stable viscosities at low, medium and high shear rates, meeting the rheological needs of different application processes and different stages of the coating life cycle.

Apart from rheology additives, Elementis also offers comprehensive additive solutions in areas such as water-based dispersants, defoamers, wetting and dispersing agent, leveling agents, and special additives, helping to facilitate the transition of car refinish coatings from solvent-based to water-based.

Elementis Product Toolkit: Your Selection Assistant

To simplify product selection, we provide quick-reference tables: ● Recommend ○ Available

Solvent-Based Product Selection Table:

Meet the high-performance requirements of the formula and fulfill personalized demand.

Product Category	Composition/ Function	Product Name	Auto-OEM			Auto-Refinish				Bumper & Interior/Exterior and other transportation			Region Available			
			Monocoat Topcoat (Solid Color)	Base coat	Clear coat	Putty	Monocoat Topcoat (2K PU Solid Color)	Base coat	Clear coat	Monocoat Topcoat (2K PU Solid Color)	Base coat	Clear coat	Americas		EU	Asia-Pacific
													LA	NA		
Rheology Modifier	Organoclay	BENTONE® 38	●	●			●	●		●	●		●	●	●	●
		BENTONE® 34	○	●				○		○	○		●	●	●	●
		BENTONE® 27	○	○		●		●		○	●		●	●	●	●
		BENTONE SD®-1	●	●			●	●		●	●		●	●	●	●
		BENTONE SD®-2	●	●			●	●		●	●		●	●	●	●
		BENGEL® 908				●							●	●		●
	Pre-activated polyolefin wax paste	DeuRheo 201P		●				●			●		●	●		●
		DeuRheo 211F						○			○					●
		DeuRheo 202P	●	●			●	●		●	●					●
		M-P-A® 202P	●	●			●	●		●	●					●
		M-P-A® 2000-X	●	●			○	○		○	●		●	●	●	●
		M-P-A® 60-X	○	●				○		○	●		●	●	●	●
	Powder type polyamide wax	THIXATROL® PM 8056						○			○		●	●	●	●
		THIXATROL® PM 8058						○			○		●	●	●	●
	Pre-activated polyamide wax paste	THIXATROL® P230X						●			○		●	●		●
		THIXATROL® P240X		●				○			●					●
		DeuRheo 229		●			●	●		●	●					●
	Castor oil derivatives	THIXCIN® R				●							●	●	●	●
		THIXATROL® ST				●							●	●	●	●
	Modified polyurea compound	DeuRheo 2810			●				●			●	●	●	●	●
	Pre-activated EVA wax paste	DeuRheo 556S		●				●			●		●	●		●
		DeuRheo 556F		○				○			○		●	●		●
Wetting and Dispersing agent	Polymeric type for carbon black and organic pigment	NUOSPERSE® FX 9360	●	●			●	●		●	●		●	●		●
		Disponer 9850	○	●	○		●	●	○	●	●	○	●	●		●
	Other type for inorganic pigment and filler	Disponer 9250	●	●		○	●	●		●	●		●			●
	Silicone type for anti-flooding and anti-floating	Disponer 904S	●	●			●	●		●	●		●			●
		Disponer 903						●			●		●			●
Wetting and levelling agent	Silicone type	Levaslip 432	○	○			○	○		○	●		●			●
		Levaslip 879		○	○		●	●					●			●
	Non-silicone type	Levelol 835	●	●	●		●	●	●	●	●	●	●	●		●
		Levelol 495	●	●			●	●	○	●	●	○	●	●		●
		Levelol 839					●	●	●	●	●	●	●			●

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Product Category	Composition/ Function	Product Name	Auto-OEM			Auto-Refinish				Bumper & Interior/Exterior and other transportation			Region Available			
			Monocoat Topcoat (Solid Color)	Base coat	Clear coat	Putty	Monocoat Topcoat (2K PU Solid Color)	Base coat	Clear coat	Monocoat Topcoat (2K PU Solid Color)	Base coat	Clear coat	Americas		EU	Asia-Pacific
													LA	NA		
Wetting and levelling agent	Surfactant with high boiling point solvent	Levelol TSP		○	○		○	○	○	○	●	○				●
Defoamer	Silicone type	Defom 5300	●	●	●		●	●	●	●	●	●	●			●
		Defom 5400					●		●	●	●	●	●			●
		Defom 5800F							●			●	●			●
		Defom 6500		○			○	○		○	○	○	●			●
Special additives	Adhesion promoter	Adherant ADP	●	●	○								●	●		●
		Adherant APW					○	●		●	●		●			●
		Adherant ADK					○	●		●	●		●	●		●
		Adherant APC					○			○	●		●			●
		Adherant CP-7540						●			●					●
		Catacure 1121						○			●					●
		Catacure 1051						○			●					●
	Curing catalyst	Catacure KC	●	●	●											●
		Catacure KB	●	●	●					○	○	○				●
		Catacure TIN-22		○			●	●	●	●	●	●				●
	Viscosity stabilizer	DeuAdd DVP					●	●	○	●	○	○				●
	Conductivity enhancer	DAPRO® FK 321	●	●	●					●	●	●	●	●	●	●
		DeuAdd EA-87	○	○	○					○	○	○				●
Hydroxy acrylic resin	Functional hydroxyl acrylic resin	HYPOMER FS-2050		○				●			●					●
		HYPOMER FS-2060A/AF		○				●			●					●
		HYPOMER FS-2451/F						●		○	●	○				●
		HYPOMER FS-2460					○	●		○	●					●
		HYPOMER FS-2820	●	●			○			○	●					●
		HYPOMER FS-2860					●		○			●				●
		HYPOMER FS-2970B							○			●				●
		HYPOMER FS-3566F							●			●				●
		HYPOMER FS-4365A/AF			○					●		○				●
		HYPOMER FS-4660P					○		●	○		●				●
		HYPOMER FS-4470							○	●		●				●
		HYPOMER FS-4075AF			○				●			●				●
	Self-matting resin	HYPOMER MT-2550F			○		○	○	●	○	○	●				●
		HYPOMER MT-2550K			○		○	○	●	○	○	●	●	●	●	●

Water-Based Product Selection Table:

Quickly find low-VOC solutions to enhance the performance of automotive coatings.

Product Category	Composition/ Function	Product Name	Auto-OEM				Auto-Refinish			Bumper & Interior/ Exterior and other transportation			Region Available			
			Waterborne Cathodic Electrodeposition	Monocoat Topcoat (Solid Color)	Base coat	Clear coat	Monocoat Topcoat (2K PU Solid Color)	Base coat	Clear coat	Monocoat Topcoat (2K PU Solid Color)	Base coat	Clear coat	Americas		EU	Asia-Pacific
													LA	NA		
Rheology Modifier	Hectorite clay	BENTONE® DE		●	●		○	●		○	●		●	●	●	●
		BENTONE® EW		○	●			●			●		●	●	●	●
		BENTONE® LT						○			○		●	●	●	●
	Polyamide wax paste	THIXATROL® P2100W		●	●		●	●		●	●		●	●	●	●
	Nonionic associative thickener	RHEOLATE® 290		●	●	●	●	●	●	●	●	●	●	●	●	●
		RHEOLATE® 299		○	○		○	●	●	○	●	●	●	●	●	●
		RHEOLATE® 288		●	●	●	●	○	●	●	●	●	●	●	●	●
		RHEOLATE® 278		○	●		○	●		○	○	○	●	●	●	●
		DeuRheo WT-105A			●	●	●	○	●	●	●	○				●
		RHEOLATE® FX 1010		○	○	●	●	●	●	○	○	○	●	●	●	●
		RHEOLATE® 255				○	○	○	○	●	●	●	●	●	●	●
		RHEOLATE® 350D		○	○	●	●	●	●	●	●	●	●	●	●	●
		RHEOLATE® 6025		○	○	●	●	●	●	●	●	○	●	●	●	●
		RHEOLATE® HX 6008						●			●		●	●	●	●
	Acrylic alkali swelling thickener	RHEOLATE® 125		○	●		○	●	○	○	●	○	●	●	●	●
		RHEOLATE® 150		○	●		○	●	○	○	●	○	●	●	●	●
	EVA wax emulsion	THIXATROL® 5050W			●			●			●		●	●	●	●
		THIXATROL® 5020W		○	●		○	●		○	●		●	●	●	●
Wetting and Dispersing agent	WB wetting and dispersing agent	NUOSPERSE® FN 265	●										●	●	●	●
		NUOSPERSE® FX 7500W		●	●		●	●		●	●		●	●	●	●
		NUOSPERSE® FX 365		●	●		●	●		●	●		●	●	●	●
		NUOSPERSE® FX 600		●	●		●	●		●	●		●	●	●	●
		NUOSPERSE® W-30					○	○		○	●		●	●	●	●
		NUOSPERSE® W-33						○			○		●	●	●	●
		NUOSPERSE® FA-115		○	○		○	○		○	○		●	●	●	●
Substrate wetting agent	Non-silicone type	DAPRO® U-99		●	●	●		○		○	●	○	●	●	●	●
	Silicone type	SUPREAD™ 3410		●	○		●	●	○	●	●	●	●	●		●
		Levelol W-469		○	○		○	●	○	○		○				●
Levelling agent	Silicone type	SLIP-AYD® FS 444		●		●		●	●	○		○	●	●	●	●
Defoamer	Silicone type	DAPRO® DF 677		○	○		○	●		○	●	○	●	●		●
Special additives	Adhesion promoter	DAPRO® ACP-16W						●			●		●	●		●
	Amine neutralizer	DeuAdd MA-95		●	●	●	●	●	●	●	●	●				●
		DMAE		●	●	●	●	●	●	●	●	●				●
	Anti-flash rust agent	NALZIN® FA 179						●			●		●	●	●	●
		NALZIN® FA 180						●			●					●

Partner with Elementis to Lead the Green Era of Automotive Coatings

Global automotive coatings are shifting to water-based/powder technologies: Auto-OEM coatings are in the “water-based maturity phase,” while refinish coatings are in the “key substitution phase.” Elementis’ innovation products like BENTONE®, THIXATROL®, M-P-A®, RHEOLATE®, NUOSPERSE®, DAPRO®, SUPREAD™ series meet environmental demands while enhancing performance. Committed to sustainability, Elementis provides low-carbon formulations for a greener future. Explore our product tables to unlock efficient solutions!

Elementis is committed to sustainable development and provides customers with low-carbon formulations, driving the industry towards a green and low-carbon future. Explore our product selection table immediately and unlock efficient solutions!

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GLOBAL AUTOMOTIVE COATINGS INNOVATION SOLUTIONS

For more details
please contact:

North America
ELEMENTIS
469 Old Trenton Road
East Windsor,
NJ 08512, USA
Tel: +1 609 443 2500

Europe
Elementis Portugal,
Unipessoal LDA
Rua de Santos Pousada,
262-B, 4000-478, Porto

Asia
Deuchem (Shanghai) Chemical
Co, Ltd., 99 Lianyang Road
Songjiang Industrial Zone
Shanghai, China 201613
Tel: +86 21 577 40348

www.elementis.com

NOTE:

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