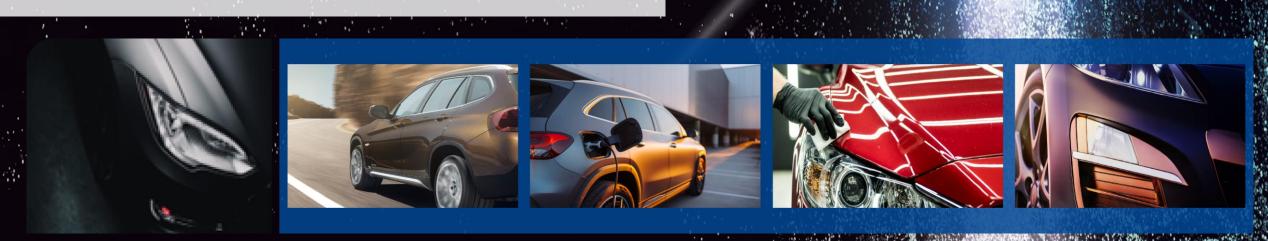
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We create chemistry

Powering Up Your Formulations

Performance & Formulation Additives for Automotive Coatings



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Our large portfolio enables solutions for various industries





BASF is the premiere provider of **Performance & Formulation Additives** for the paints and coatings industry





Carbon Management: BASF's path to climate neutrality in 2050

CO₂ reduction



- Reduce the emissions along the value chain
- Derive the PCFs of our products

The Biomass Balance Approach



- Enables carbon footprint reductions
- Without compromising the product's final properties

Sustainable Transport Solutions



- Gaining transparency on transport emissions
- Working with suppliers to achieve measurable improvements



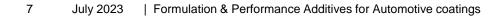
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Sustainability Differentiation – Automotive Coatings

	Dispersing Agents	Defoamers		Rheology Modifiers	Wetting Agents and Surface Modifiers	Light Stabilizers
Enables water-based	Dispex [®] Ultra PA 4550 Dispex [®] Ultra PX 4290 Dispex [®] Ultra PX 4575 Dispex [®] Ultra PX 4585 Dispex [®] Ultra CX 4452	FoamStar [®] MO 2134 FoamStar [®] MO 2111 FoamStar [®] SI 2299 FoamStar [®] ST 2400 FoamStar [®] ST 2454 FoamStar [®] ST 2438	-	Rheovis [®] AS 1130 Rheovis [®] HS 1153 Rheovis [®] PU 1193 Rheovis [®] PU 1250	Hydropalat [®] FL 3635 Hydropalat [®] WE 3120 Hydropalat [®] WE 3221 Hydropalat [®] WE 3323 Hydropalat [®] WE 3650	Tinuvin [®] 9945-DW ECO Tinuvin [®] 400-DW ECO Tinuvin [®] 477-DW ECO Tinuvin [®] 479-DW ECO Tinuvin [®] 123-DW ECO Tinuvin [®] 249-DW ECO
Enables 100% systems	Efka® PX 4310 Efka® PX 4320 Efka® PX 4330 Efka® PX 4350 Efka® PX 4733 Efka® PX 4780 Efka® PX 4787	Efka [®] PB 2770	7	Efka [®] RM 1410 Efka [®] RM 1469 Efka [®] RM 1920	Efka [®] FL 3740 Efka [®] FL 3745 Efka [®] FL 3750 Efka [®] SL 3258 Hydropalat [®] WE 3220	Tinuvin [®] 405 Tinuvin [®] 928 Tinuvin [®] 292 Tinuvin [®] 123 Tinuvin [®] 249 Tinuvin [®] 152
Efficiency	Efka [®] PX 4310 Efka [®] PX 4350 Efka [®] PX 4787 Dispex [®] Ultra CX 4452 Dispex [®] Ultra PA 4550 Dispex [®] Ultra PX 4585	FoamStar® ST 2438		Rheovis [®] AS 1130 Efka [®] RM 1410	Efka [®] FL 3740 Efka [®] FL 3745	Tinuvin [®] 400 Tinuvin [®] 477 Tinuvin [®] 479 Tinuvin [®] 123 Tinuvin [®] 249 Tinuvin [®] 152
Renewables		Efka® PB 2770		Efka [®] RM 1900 Efka [®] RM 1920	Hydropalat [®] WE 3120	Tinuvin [®] 123 Tinuvin [®] 292

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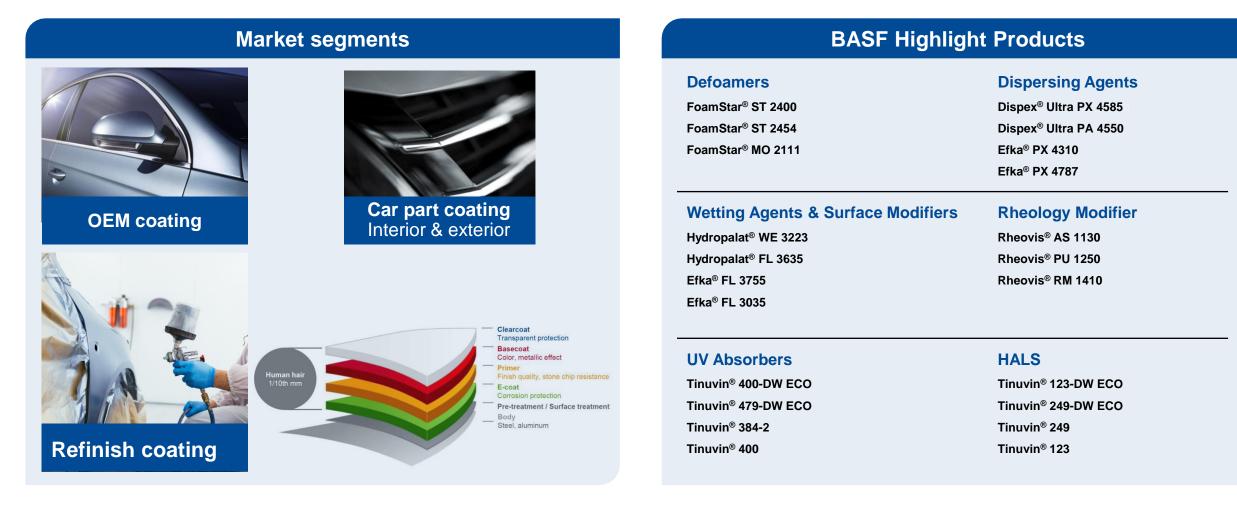


Product Portfolio for Automotive Coatings

	Dispersing Agents High molecular weight Low molecular weight		– Rheology	Rheology	Wetting Agents &	Miscellaneous	Light Stabilizers				
			Defoamers	Modifiers			UVA	HALS	DW	Blends	
Water-based	Dispex [®] Ultra PA 4550 PX 4575 PX 4585 PX 4290 PX 4275 CX 4452	Dispex[®] Ultra FA 4416 FA 4437	FoamStar® MO 2134 MO 2111 SI 2299 ST 2400 ST 2454 ST 2438	Rheovis [®] AS 1130 HS 1153 PU 1250 PU 1193 Attagel 50	Hydropalat [®] WE 3120 WE 3220 WE 3221 WE 3323 WE 3650 FL 3635	Loxanol[®]/ Efka[®] Loxanol PL 5830 Efka PL 5651			Tinuvin[®] 123- DW ECO 400- DW ECO 479- DW ECO 9945- DW ECO		
Solvent- based	Efka [®] PA 4401 PU 4061 PU 4063 PX 4310 PX 4320 PX 4320 PX 4350 PX 4753 PX 4780 PX 4787	Efka[®] FA 4609 FA 4611	Efka [®] SI 2723 PB 2010 PB 2770	Efka [®] RM 1469 RM 1920 RM 1410	Efka [®] FL 3740 FL3745 FL 3750 FL 3755 SL 3288 SL 3030 SL 3035 SL 3236	Efka[®] Efka IO 6779 Efka IO 6782	Tinuvin[®] 384-2 400 477 479 928 1130 Carboprotect	Tinuvin® 123 152 292 249		Tinuvin[®] 5151 5248 5341	

New product

Industrial Coatings Segments & BASF portfolio





Automotive Coatings Trends

Film properties improvement, process innovation, sustainability

Technology trends	Defoamers	Dispersing Agents	Wetting Agents & Surface Modifiers	Rheology Modifiers	Light Stabilizer
 Improve film properties Higher chroma & flip-flop Optimal appearance & high durability New functionalities 		Dispex [®] Ultra FA 4437 Ultra PX 4585 Efka [®] PX 4310 PX 4787	Hydropalat [®] WE 3323 FL 3635 Efka [®] FL 3740 FL 3755	Rheovis® AS 1130 HS 1153 PU 1193	Tinuvin[®] 477 479 152 DW ECO
 Process innovation and efficiency Improve application robustness Spray dust free application In mold coating 	FoamStar [®] ST 2400 ST 2454	Dispex [®] Ultra PX 4585 Efka [®] PX 4310 PX 4787	Hydropalat [®] WE 3323 FL 3635	Rheovis® PU 1250	
 Sustainability High solid, low VOC Low bake Shorter process 	Efka[®] PB 2770	Dispex ® Ultra PX 4452 Efka® PX 4787			

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Highlight Products (1 of 2)



Efka[®] PX 4310 Market benchmark, high performance dispersant based on CFRP technology



Efka[®] PX 4780 / 4787 Cross-linkable dispersant with strong viscosity reduction in solvent-based systems



Dispex® Ultra PX 4585 WB dispersant for with **benchmark performance** in carbon black & organic pigments



Dispex[®] Ultra PA 4550 Excellent universal pigment stabilization with best water resistance



Dispex[®] Ultra CX 4452 Superior viscosity reduction with inorganic pigments and excellent water resistance



Hydropalat[®] WE 3323

Novel hyper-branched surfactant with **excellent substrate wetting with defoaming** benefit



Highlight Products (2 of 2)



Foamstar® ST 2400 Highly compatible silicone free defoamer with fast bubble break time



Rheovis® PU 1192/1193 Highly efficient, **exceedingly pseudoplastic** rheology modifiers



Tinuvin[®] DW ECO Easy to incorporatelight **WB light stabilizers** to meet VOC and eco-label requirements



Efka[®] FL 3750 / 3755

Highly compatible leveling agents for solventborne and solvent-free coatings

Upcoming Launch

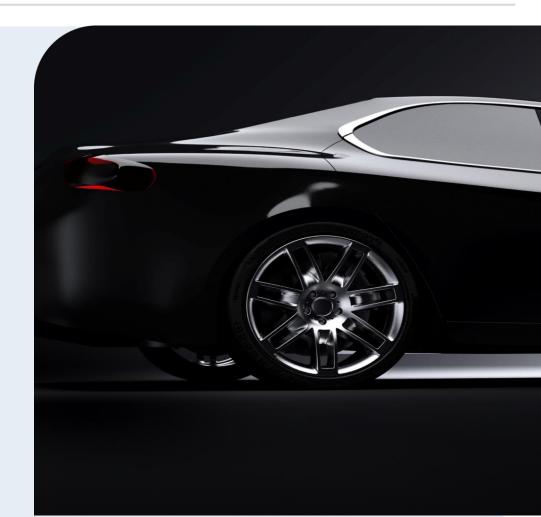


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- BASF offers a full range of Formulation Additives and Performance Additives for Automotive Coatings
- We make today's challenge tomorrow's solution meeting emerging automotive coating trends
 - Continuous improvement in technology & process
 - New technology
 - Sustainability
- Our sustainable portfolio for automotive coatings is ready to power up your formulations and pushing to the next level of the green transformation towards sustainable growth.
- BASF's Lab Assistant powerful digital tool that enables you to find the best raw materials for your specific automotive coatings needs – Explore. Formulate. Collaborate.





BASF Formulation and Performance Additives

Powering Up Your Formulations with cutting-edge expertise



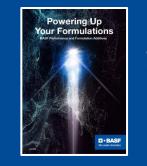
Designed to simplify your lab life.

- Explore. Formulate. Collaborate.

BASF Lab Assistant is a web-based application that makes it easier for you to learn more about **Performance and Formulation Additives.**







Global Product Catalogue

The comprehensive global catalogue featuring BASF Performance and Formulation Additives products.



Sustainability Presentation

With our sustainable measures and our renewable additives portfolio we are ready to Power Up your transformation towards sustainable growth.





Industry Presentation

Dedicated solution for specialized industry:

- Architecture
- Automotive
- Industrial
- Furniture & Flooring
- Printing & Packaging



Industry Presentation Industrial Online Tool





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Disclaimer

Safety

When handling the mentioned products, please comply with the advice and information given in the safety data sheets and observe protective and workplace hygiene measures adequate for handling chemicals.

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our products, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. The agreed contractual quality of the product results exclusively from the statements made in the product specification. It is the responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed.

