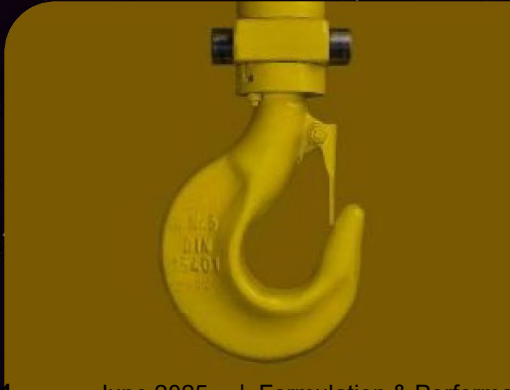




We create chemistry

Powering Up Your Formulations

with Performance and Formulation Additives for
INDUSTRIAL COATINGS



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Our large portfolio enables solutions for various industries

Formulation Additives



Dispersing Agents



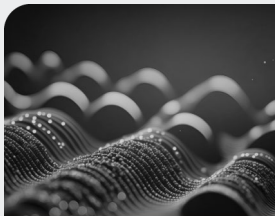
Defoamers



Rheology Modifiers

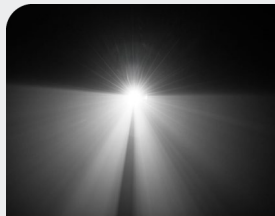


Wetting Agents & Surface Modifiers

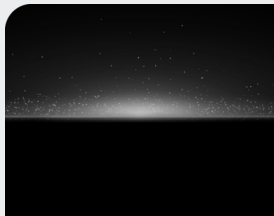


Film-forming Agents

Performance Additives



UV Absorbers
BTZ & HPT



Radical Scavengers
HALS



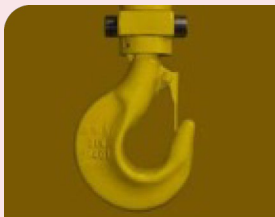
Antioxidants



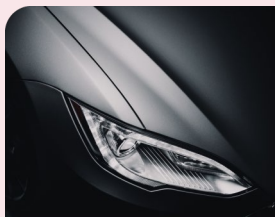
BASF is the premiere provider of **Performance & Formulation Additives** for the paints and coatings industry



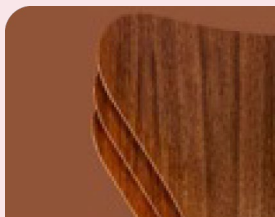
Architectural Coatings



Industrial Coatings



Automotive Coatings



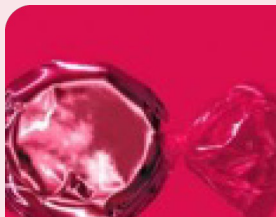
Furniture & Flooring



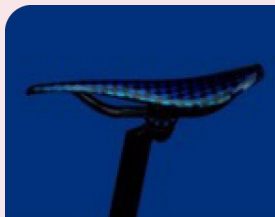
Adhesives



Construction



Printing & Packaging



Composites

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

CO₂ reduction



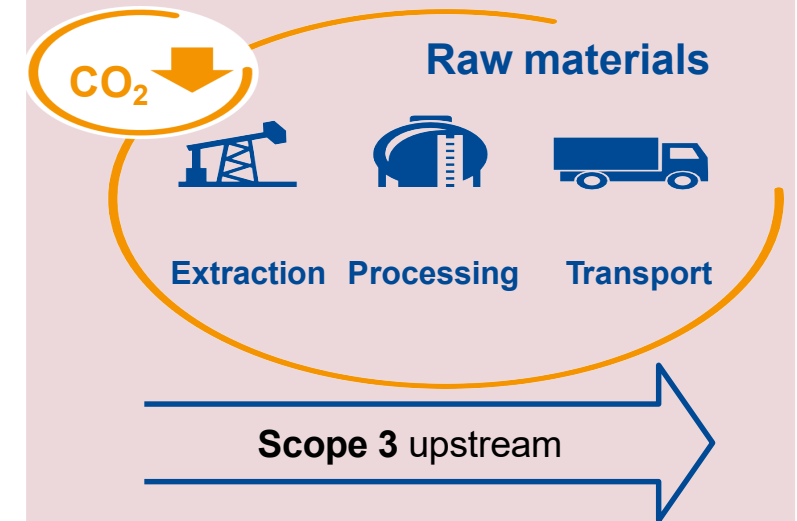
- Reduce the emissions along the value chain
- Derive the PCFs of our products

The Biomass Balance Approach



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

Supplier CO₂ Management



- Sourcing low PCF raw material
- Working with suppliers to achieve measurable improvements

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Sustainability Differentiation – Industrial

	Dispersing Agents	Defoamers	Rheology Modifiers	Wetting Agents and Surface Modifiers	Performance Additives
 Enables water-based	Dispex® Ultra PA 4550 Dispex® Ultra PX 4290 Dispex® Ultra PX 4565 Dispex® Ultra PX 4575 Dispex® Ultra PX 4585 Dispex® Ultra CX 4452	FoamStar® ED 2522 FoamStar® ED 2528 FoamStar® SI 2210 FoamStar® SI 2281 FoamStar® SI 2299 FoamStar® ST 2438	Rheovis® AS 1130 Rheovis® HS 1153 Rheovis® PU 1193 Rheovis® PU 1291 Rheovis® PU 1331	Efka® SL 3288 Efka® FL 3782 Hydropalat® WE 3120 Hydropalat® WE 3221 Hydropalat® WE 3650 Hydropalat® WE 3229	Tinuvin® 400-DW ECO Tinuvin® 123-DW ECO Tinuvin® 249-DW ECO Tinuvin® 5321-DW ECO Irganox® 1010-DW ECO
 Enables 100% systems	Efka® PX 4310 Efka® PX 4330 Efka® PX 4350 Efka® PX 4701 Efka® PX 4733 Efka® PX 4753 Efka® PX 4787	Efka® PB 2744 Efka® PB 2770 Efka® PB 2001S Efka® PB 2020S Efka® SI 2723	Efka® RM 1900 Efka® RM 1920	Efka® FL 3740 Efka® FL 3750 Efka® FL 3287 Efka® SL 3299 Hydropalat® WE 3220 Hydropalat® WE 3229	Tinuvin® 171 Tinuvin® 405 Tinuvin® 5100 Tinuvin® 152 Tinuvin® 292 Tinuvin® 5071
 Durability	Efka® PX 4310 Efka® PX 4350 Efka® PX 4753 Efka® PX 4787 Dispex® Ultra CX 4452 Dispex® Ultra PA 4550 Dispex® Ultra PX 4585	Efka® PB 2744 Efka® PB 2770		Efka® SL 3236 Efka® SL 3299 Hydropalat® SL 3683	Tinuvin® 400 Tinuvin® 405 Tinuvin® 123 Tinuvin® 152 Tinuvin® 5071
 Renewables		Efka® PB 2770 FoamStar® SI 2210 FoamStar® SI 2217	Efka® RM 1900 Efka® RM 1920 Rheovis® AS/HS	Hydropalat® WE 3120 Hydropalat® WE 3130 Hydropalat® WE 3645	Tinuvin® 123 Tinuvin® 292
 Tin-free	Efka® FA 4601 Efka® PX 4310 Efka® PX 4330 Efka® PX 4360 Efka® PX 4753 Dispex® Ultra PA 4550 Dispex® Ultra PX 4565 Dispex® Ultra PX 4575 Dispex® Ultra PX 4585	FoamStar® SI 2210 FoamStar® SI 2299 FoamStar® ST 2438 Efka® SI 2041 Efka® SI 2042	Full Rheovis® range	Efka® FL 3782 Efka® FL 3287 Efka® SL 3259 Efka® SL 3288 Hydropalat® WE 3229 Hydropalat® WE 3650	Tinuvin® 171 Tinuvin® 400 Tinuvin® 405 Tinuvin® 479 Tinuvin® 292 Tinuvin® 123 Tinuvin® 249 Tinuvin® 152

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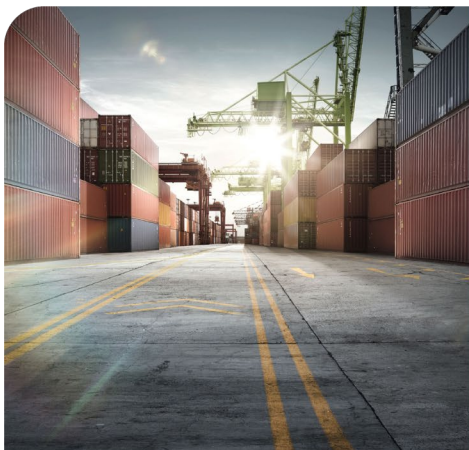
Summary

Industrial Coatings Portfolio

	Dispersing Agents		Defoamers	Rheology Modifiers	Wetting Agents & Surface Modifiers	Performance Additives			
	High molecular weight	Low molecular weight				UVA	HALS	Antioxidants	Blends
Water-based	Dispex® Ultra CX 4452 PA 4550 PX 4275 PX 4290 PX 4565 PX 4575 PX 4585	Dispex® Ultra FA 4416 FA 4480 FA 4483	FoamStar® ED 2522 ED 2524 ED 2528 SI 2210 SI 2217 SI 2240 SI 2250 SI 2281 SI 2292 SI 2299 ST 2438	Rheovis® AS 1130 HS 1101 HS 1162 HS 1303 PE 1330 PU 1193 PU 1235 EC PU 1291/ 92 PU 1331 PU 1333 UR 1120	Hydropalat® WE 3120 WE 3220 WE 3221 WE 3229 WE 3650 WE 3165 SL 3683 Efka® FL 3782	Tinuvin® 9945-DW ECO 400-DW ECO	Tinuvin® 123-DW ECO 249-DW ECO	Irganox® 1010-DW ECO	Tinuvin® 5321
	Efka® PU 4061 PU 4063 PX 4310 PX 4321 PX 4330 PX 4350 PX 4360 PX 4733 PX 4753 PX 4780 PX 4787	Efka® FA 4601 FA 4611	Efka® PB 2001S PB 2020S PB 2725 PB 2744 SI 2723 SI 2041 SI 2042	Efka® RM 1410 RM 1469 RM 1900 RM 1920	Efka® FL 3740 FL 3745 FL 3755 SL 3236 SL 3035 FL 3287 FL 3787	Tinuvin® 99-2 171 400 405 479 900 928 1130	Tinuvin® 292 249 123 5100 152		Tinuvin® 5071 5151
	Dispex® Ultra PX 4701 PX 4703		Efka® PB 2770		Efka® SL 3259 SL 3288 SL 3299 SL 3035 FL 3782	Tinuvin® 400 405	Tinuvin® 249		

New products

Industrial Coatings Segments



General Industrial Paints (GIP)

Low duty Industrial maintenance, not including anti-fouling:

- Container coatings
- Motorcycle /
- Appliance / Cabinets



Marine Coating

Marine coatings include all coatings on surfaces above or below the waterline on:

- Ships
- Boats
- Vessels
- Offshore rigs



Agriculture Construction and Earth Moving

Coating for Agriculture Construction and Earth Moving:

- Agriculture
- Construction
- Earth moving equipment's



Coil Coating

Coil coating is a continuous, automated process for **coating** metal before fabrication into end products:

- Architectural
- Appliance

Industrial Coatings Trends - BASF Highlight Products

Coatings trends		Defoamers	Dispersing Agents	Wetting Agents & Surface Modifiers	Rheology Modifiers	UVA	HALS	AO	Blends
Improved performance & durability of coatings		FoamStar® SI 2281 SI 2299 ED 2524 ED 2528	Dispex® Ultra CX 4452 PX 4290 Efka® PX 4753 PX 4787	Efka® FL 3755 FL 3782 Hydropalat® WE 3229 SL 3683	Efka® RM 1410 Rheovis® PU 1193 UR 1120	Tinuvin® 400-DW ECO	Tinuvin® 123-DW ECO 249-DW ECO 152		
Improved sustainability (regulatory, low VOC, PCF)		Efka® PB 2770 SI 2041 SI 2042		Hydropalat® WE 3130 Efka® FL 3782 FL 3287		Tinuvin® 400-DW ECO	Tinuvin® 123-DW ECO 249-DW ECO 152	Irganox® 1010-DW ECO	Irganox® 5321-DW ECO
Reduced costs of paint formulations			Efka® PX 4360 Dispex® Ultra PX 4565	Efka® FL 3787 Hydropalat® WE 3220 WE 3229					

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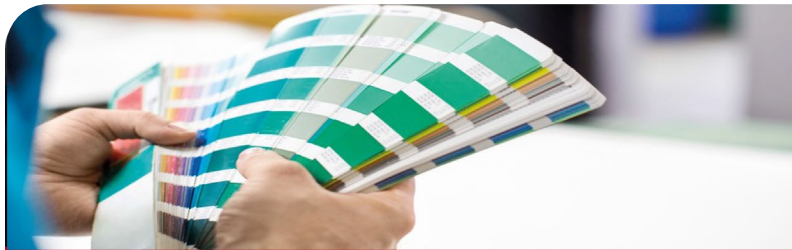
Summary

Highlight Products (1/4)



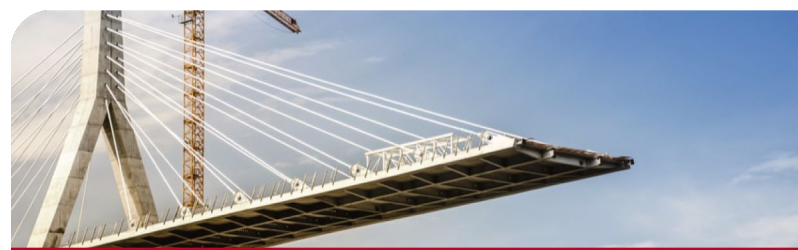
Efka® PB 2770

Silicone-free, 100% defoamer for radiation curing systems



Dispex® Ultra PX 4290

Universal water-based dispersing agent for coatings printing inks and adhesives



Dispex® Ultra CX 4452

High-performance dispersant for **lowering viscosity and improving coloristics** in transparent Iron-oxide



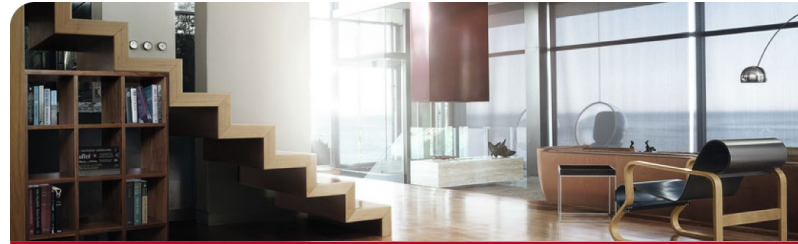
Efka® PX 4753

Next generation high performance dispersing agent for solvent-based pigment concentrates



Efka® PX 4780 / 4787

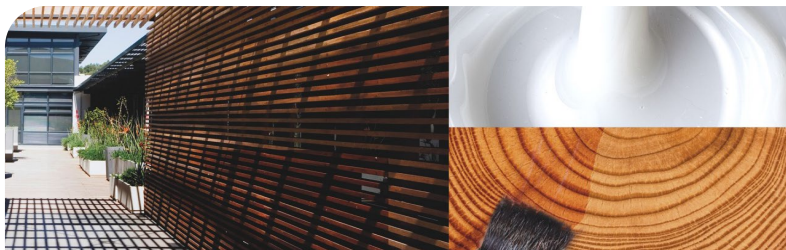
Cross-linkable dispersing agent with **strong viscosity reduction** in solvent-based systems



FoamStar® SI 2299

Highly effective deaerator and defoamer for spray coatings

Highlight Products (2/4)



Rheovis® PU 1192/1193

Highly efficient, **exceedingly pseudoplastic** rheology modifiers



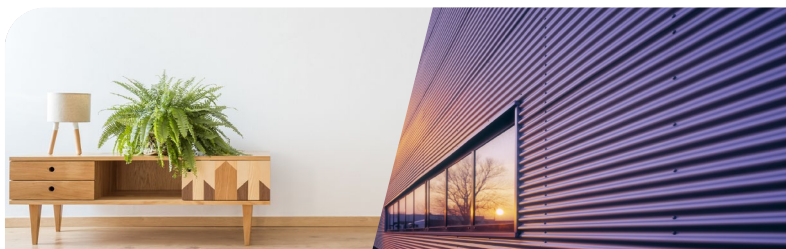
Efka® RM 1410

Modified polyurea based rheology agent for **excellent levelling and anti-settling properties**



Rheovis® UR 1120

Modified polyurea thickener with **pronounced thixotropic effect for excellent levelling**



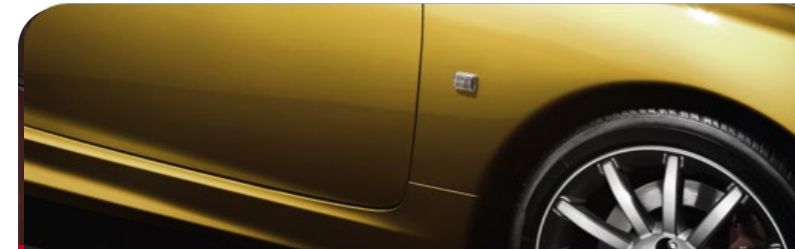
Tinuvin® DW ECO

Easy to incorporate light stabilizers to meet VOC and eco-label requirements



Irganox® 1010-DW ECO

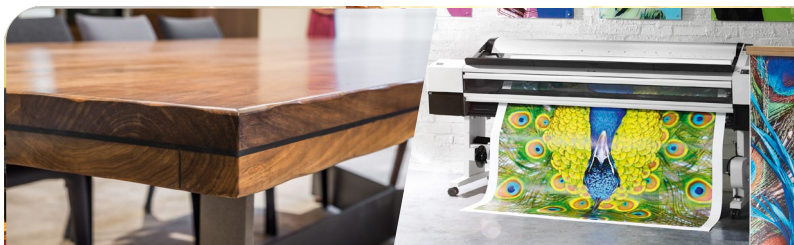
Next generation antioxidant for water-based adhesives and coatings



Efka® FL 3755

Highly compatible leveling agent for solvent-based and solvent-free coatings

Highlight Products (3/4)



Hydropalat® SL 3683

Highly effective slip and anti-blocking agent for paints and coatings



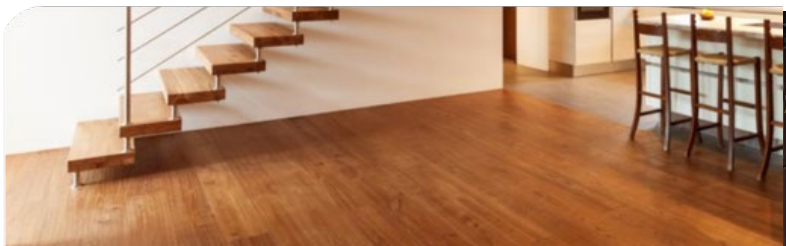
FoamStar® ED 2528

High performance emulsion deaerator based on modified silicone



FoamStar® SI 2281

Highly compatible and easy to incorporate universal polyether-modified silicone defoamer



Hydropalat® WE 3229

Silicone based wetting agent with pronounced defoaming action



Dispex® Ultra PX 4565

New aqueous high performance dispersing agent for organic pigments and C-blacks with improved value in use



Efka® PX 4360

New high performance dispersing agent for organic pigments and C-blacks with improved value in use

Highlight Products (4/4) – PFAs Alternatives



Efka® SI 2041/2042

Highly efficient silicone defoamers for solvent-based architectural, general industrial and wood coating systems (PFAS Alternatives)



Efka® FL 3787

Next generation leveling agent for solvent-based low to medium end industrial coatings



Efka® FL 3287

Silicone-modified Polyacrylate leveling agent with excellent recoatability



Efka® FL 3782

Silicone-modified Polyacrylate leveling agent suitable for water- and solvent-based systems

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- **BASF offers a full range of Formulation Additives and Performance Additives for Industrial Coatings**
- We make today's challenge tomorrow's solution meeting emerging wood trends
 - Improved performance & **durability**
 - Improved **Sustainability**
 - **Reduced costs** of paint and coatings formulations
- Our **sustainable portfolio for Industrial 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 industrial coatings needs



BASF Formulation and Performance Additives

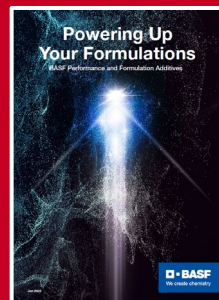
Powering Up Your Formulations with cutting-edge expertise



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**.



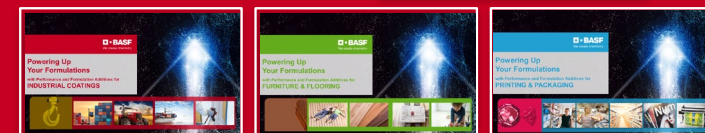
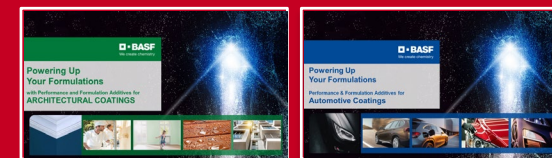
Global Product Catalogue

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

**Explore.
Formulate.
Collaborate.**



Do you want to formulate faster?

BASF's Lab Assistant

Designed to simplify your lab life –
Explore. Formulate. Collaborate.

DISCOVER NOW



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.



We create chemistry