



We create chemistry

Powering Up Your Formulations

with Performance and Formulation Additives for
INDUSTRIAL COATINGS



Agenda



- 1** BASF Pioneer in Sustainability
- 2 Sustainability Product Recommendations
- 3 Industry Segments Product Guide
- 4 Highlight Products (Launches)
- 5 Summary

Our large portfolio enables solutions for various industries

Formulation Additives



Dispersing Agents



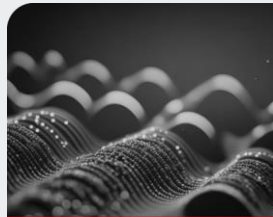
Defoamers



Rheology Modifiers



Wetting Agents & Surface Modifiers

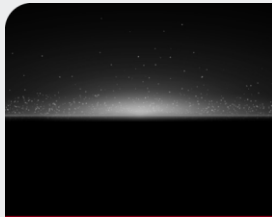


Film-forming Agents

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

Sustainable Transport Solutions



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

Agenda

1

BASF Pioneer in Sustainability

2

Sustainability Product Recommendations

3

Industry Segments Product Guide

4

Highlight Products (Launches)

5

Summary

Sustainability Differentiation – Industrial

	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® 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 Hydropalat® WE 3120 Hydropalat® WE 3221 Hydropalat® WE 3323 Hydropalat® WE 3650	Tinuvin® 400-DW ECO Tinuvin® 479-DW ECO Tinuvin® 123-DW ECO Tinuvin® 249-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 2001 Efka® PB 2020 Efka® SI 2723	Efka® RM 1900 Efka® RM 1920	Efka® FL 3740 Efka® FL 3750 Efka® SL 3230 Efka® SL 3299 Hydropalat® WE 3220	Tinuvin® 405 Tinuvin® 479 Tinuvin® 928 Tinuvin® 292 Tinuvin® 123 Tinuvin® 152
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 3230 Efka® SL 3236 Efka® SL 3299	Tinuvin® 400 Tinuvin® 405 Tinuvin® 479 Tinuvin® 123 Tinuvin® 249 Tinuvin® 144
Renewables		Efka® PB 2770 FoamStar® SI 2210 FoamStar® SI 2217	Efka® RM 1900 Efka® RM 1920	Hydropalat® WE 3120 Hydropalat® WE 3130	Tinuvin® 123 Tinuvin® 292 Tinuvin® 770 DF
Tin-free	Efka® FA 4601 Efka® PX 4310 Efka® PX 4330 Efka® PX 4350 Efka® PX 4753 Dispex® Ultra PA 4550 Dispex® Ultra PX 4575 Dispex® Ultra PX 4585	FoamStar® SI 2210 FoamStar® SI 2299 FoamStar® ST 2438	Rheovis® AS 1130 Rheovis® HS 1153 Rheovis® PU 1193 Rheovis® PU 1291 Rheovis® PU 1331	Efka® FL 3750 Efka® SL 3230 Efka® SL 3288 Hydropalat® WE 3229 Hydropalat® WE 3323 Hydropalat® WE 3650	Tinuvin® 171 Tinuvin® 400 Tinuvin® 405 Tinuvin® 479 Tinuvin® 292 Tinuvin® 123 Tinuvin® 249 Tinuvin® 152

Agenda

1

BASF Pioneer in Sustainability

2

Sustainability Product Recommendations

3

Industry Segments Product Guide

4

Highlight Products (Launches)

5

Summary

Industrial Coatings Portfolio

	Dispersing Agents		Defoamers	Rheology Modifiers	Wetting Agents & Surface Modifiers	Performance Additives			
	High molecular weight	Low molecular weight				UVA	HALS	Blends	
Water-based	Dispex® Ultra CX 4452 PA 4550 PA 4590 PX 4275 PX 4290 PX 4575 PX 4585	Dispex® Ultra FA 4416 FA 4480 FA 4483	FoamStar® ED 2522 ED 2528 SI 2210 SI 2217 SI 2240 SI 2250 SI 2281 SI 2292 SI 2299 ST 2438	Rheovis® AS 1130 HS 1162 HS 1303 PE 1330 / 31 PU 1193 PU 1235 EC PU 1291 PU 1331 PU 1340 / 41 UR 1120	Hydropalat® WE 3120 WE 3220 WE 3221 WE 3229 WE 3323 WE 3650	Tinuvin® 1130 9945-DW ECO 400-DW ECO 479-DW ECO	Tinuvin® 123-DW ECO 249-DW ECO		
Solvent-based	Efka® PU 4061 PU 4063 PX 4310 PX 4330 PX 4350 PX 4701 PX 4733 PX 4753 PX 4780 PX 4787	Efka® FA 4600 FA 4601 FA 4611	Efka® PB 2001 PB 2010 PB 2020 PB 2725 PB 2744 SI 2723	Efka® RM 1410 RM 1469 RM 1900 RM 1920	Efka® FL 3740 FL 3741 FL 3745 FL 3755 SL 3236	Tinuvin® 99-2 171 400 405 479 900 928 1130	Tinuvin® 292 249 123 5100 152	Tinuvin® 5050 5060 5070 5151	
Universal / UV Systems	Dispex® Ultra PX 4525		Efka® PB 2770		Efka® SL 3030 SL 3230 SL 3259 SL 3288 SL 3299 SL 3035				

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:

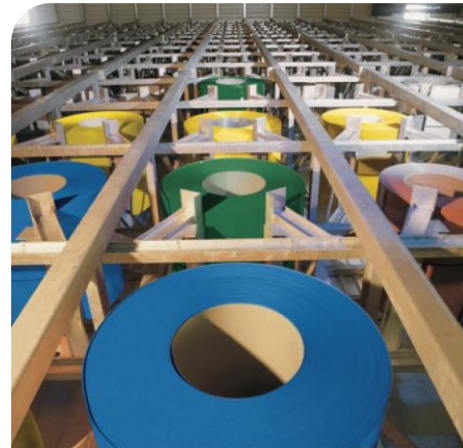
- Ships
- Boats
- Vessels
- Offshore rigs



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

Improved **performance & durability** of coatings



Defoamers

FoamStar®
SI 2281
SI 2299
ED 2528

Dispersing Agents

Dispex® Ultra
CX 4452
PX 4290
Efka®
PX 4753
PX 4787

Wetting Agents & Surface Modifiers

Efka®
FL 3750 / 3755
SL 3230
Hydropalat®
WE 3229

Rheology Modifiers

Efka®
RM 1410
Rheovis®
PU 1193
UR 1120

UV Absorbers HALS

Tinuvin®
9945-DW ECO
400-DW ECO
479-DW ECO

Tinuvin®
123-DW ECO
249-DW ECO

Improved **sustainability** (regulatory, low VOC, PCF)



Efka®
PB 2770

Efka®
SL 3230

Tinuvin®
9945-DW ECO
400-DW ECO
479-DW ECO

Tinuvin®
123-DW ECO
249-DW ECO

Reduced **costs** of paint formulations



Efka®
SL 3230
Hydropalat®
WE 3229

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1

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2

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3

Industry Segments Product Guide

4

Highlight Products (Launches)

5

Summary

Highlight Products (1/2)

incl. latest launches



Efka® SL 3230

Highly compatible silicone-based **slip and leveling agent** significantly improving **scratch resistance**



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

Highlight Products (2/2)

incl. latest launches



FoamStar® SI 2299

Highly effective deaerator and defoamer for spray coatings



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



Lignostab™ 530

Next Generation of liquid light stabilizers for the protection of light-colored woods and wood veneers

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3

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5

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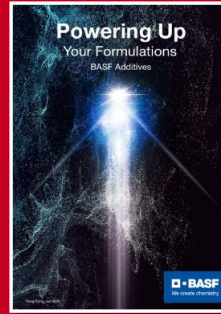
Summary

- **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



Global Product Catalogue

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



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**.



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
- Industrial Wood
- Printing & Packaging



We create chemistry

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.