



Powering Up Your Formulations

with Performance and Formulation Additives for
ARCHITECTURAL COATINGS



Agenda



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BASF Pioneer in Sustainability

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Sustainability Product Recommendations

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Industry Segments Product Guides

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Highlight Products

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Summary

Our large portfolio enables solutions for various industries

Formulation Additives



Dispersing Agents



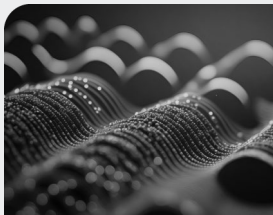
Defoamers



Rheology Modifiers

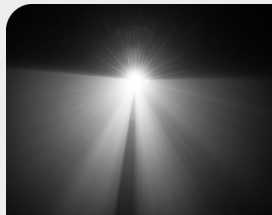


Wetting Agents & Surface Modifiers

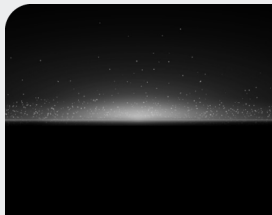


Film-forming Agents

Performance Additives



UV Absorbers



Radical Scavengers



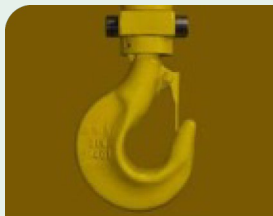
Antioxidants



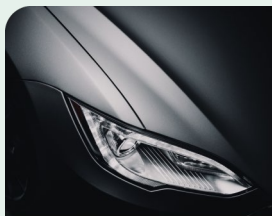
BASF is the premiere provider of **Performance & Formulation Additives** for the paints and coatings industry



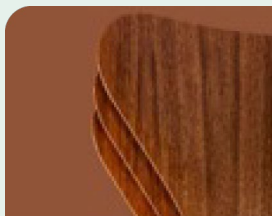
Architectural Coatings



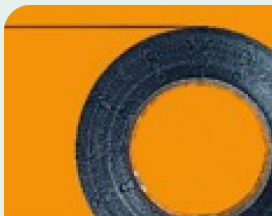
Industrial Coatings



Automotive Coatings



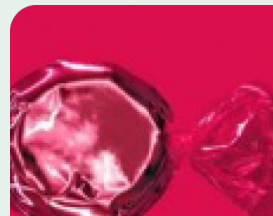
Furniture & Flooring



Adhesives



Construction



Printing & Packaging



Composites

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

CO₂ reduction



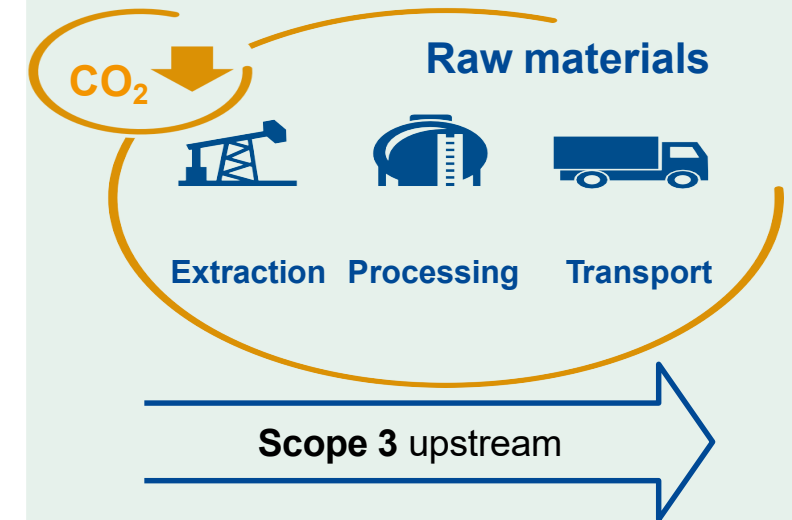
- Reduce the emissions along the value chain
- Derive the PCFs of our products

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 – Architectural

	Dispersing Agents	Defoamers	Rheology Modifiers	Wetting Agents and Surface Modifiers	Film-forming Agents	Light Stabilizers
 Low odor	Dispex® AA 4140 Dispex® CX 4320 Dispex® CX 4348	FoamStar® ED 2521 FoamStar® ED 2522 FoamStar® ED 2523 FoamStar® ED 2523 FoamStar® ED 2528	Rheovis® PU 1333 Rheovis® PE 1330/31 EC Rheovis® PU 1291 Rheovis® PU 1256 EC	Efka® SL 3299 Hydropalat® WE 3120 Hydropalat® WE 3130 Hydropalat® WE 3220 Hydropalat® WE 3229	Loxanol® CA 5336	Tinuivn® DW ECO range
 Eco-labels	Dispex® CX 4231 Dispex® CX 4320 Dispex® Ultra FA 4484 Dispex® Ultra PX 4522 Dispex® Ultra PX 4575	Foamaster® NO 2306 Foamaster® NO 2331 Foamaster® NO 2335 FoamStar® ED 2521 FoamStar® ED 2522 FoamStar® ED 2523	Rheovis® AS 1125 Rheovis® HS 1153 Rheovis® HS 1212 Rheovis® HS 1303 EB Rheovis® PU 1192/93 Rheovis® PU 1291	Hydropalat® WE 3120 Hydropalat® WE 3220 Hydropalat® WE 3625 Hydropalat® WE 3650 Hydropalat® WE 3966	Loxanol® CA 5336	Tinuvin® 123-DW ECO Tinuvin® 249-DW ECO Tinuvin® 5333-DW ECO Tinuvin® 477-DW ECO Tinuvin® 5321-DW ECO
 Durability	Dispex® CX 4231 Dispex® CX 4248 Dispex® CX 4320	Foamaster® MO 2134 Foamaster® NO 2331 FoamStar® ST 2410 FoamStar® ST 2438 FoamStar® SI 2281		Efka® SL 3299 Hydropalat® SL 3683 Hydropalat® WE 3229	Loxanol® CA 5336	Tinuvin® 123-DW ECO Tinuvin® 249-DW ECO Tinuvin® 477-DW ECO Tinuvin® 5333-DW ECO Tinuvin® 5321-DW ECO
 Renewables	Dispex® Ultra FA 4437	Foamaster® NO 2306 Foamaster® NO 2331 Foamaster® NO 2335 FoamStar® ST 2438 FoamStar® SI 2217	Rheovis® AS/HS Rheovis® PU 1192 Rheovis® AS 1127	Hydropalat® WE 3120 Hydropalat® WE 3127 Hydropalat® WE 3130 Hydropalat® WE 3625	Loxanol® CA 5336 Loxanol® OT 5488 Loxanol® OT 5840 Loxanol® OT 5846 Loxanol® OT 5853 Loxanol® OT 5900	Tinuvin® 123-DW ECO
 Biocide-free	Dispex® AA 4140 Dispex® CX 4231 Dispex® CX 4248 Dispex® CX 4320 Dispex® Ultra FA 4437	Foamaster® MO NXZ Foamaster® MO 2150 FoamStar® ST 2410 FoamStar® ST 2438 FoamStar® SI 2281	Rheovis® AS 1125 Rheovis® AS 1127 Rheovis® HS 1101	Efka® SL 3299 Hydropalat® WE 3111 Hydropalat® WE 3120 Hydropalat® WE 3165		

Examples of additives for architectural with renewable content



Hydropalat® WE 3625	100%
Foamaster® NO 2331	98%
Loxanol® OT 5853	80%
Loxanol® MI 6480	63%
Dispex® Ultra FA 4437	42%
Rheovis® PU 1192	22%

All measurements reflect approximate values based on ASTM D6866-18 (method B)

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Focus products for Architectural Coatings

	Defoamers		Dispersing Agents		Rheology Modifiers		Wetting Agents & Surface Modifiers	Miscellaneous	Performance Additives
Water-based	Foamaster® MO 2111 MO 2134 MO 2150 MO 2152 MO 2157 MO 2159 MO 2163 MO 2172 MO 2185 MO 2190 MO NXZ-2 MO NDW NO 2331	FoamStar® ED 2522 ED 2523 ED 2528 SI 2250 SI 2281 SI 2292 ST 2410 ST 2412 ST 2420 ST 2434 ST 2438 ST 2445 ST 2446	High mol. weight	Low mol. weight	Rheovis® AS 1110 AS 1125 HS 1101 HS 1153 HS 1181 HS 1184 HS 1185 HS 1212 HS 1276 HS 1303 HS 1332 Attagel® 40 50	PU 1192 PU 1193 PU 1256 EC PU 1291 PU 1333 PU 1341	Hydropalat® WE 3111 WE 3147 WE 3165 WE 3189 WE 3221 WE 3229 WE 3311 WE 3320	Loxanol® CA 5140 CA 5308 CA 5310 OT 5853 OT 5900 MI 6311 MI 6727	Tinuvin® 123-DW ECO 249-DW ECO 477-DW ECO 5321-DW ECO 5333-DW ECO 9945-DW ECO Lignostab® 530
			Dispex®	Dispex® Ultra					
			AA 4040	FA 4420					
			AA 4140	FA 4425					
			AA 4141	FA 4437					
			AA 4144	FA 4480					
			CX 4231	FA 4483					
				FA 4484					
			CX 4248/4348						
			CX 4320						
			CX 4636						
			HIDE CX 4540						
			Dispex® Ultra						
			CX 4452						
			PX 4290						
PX 4575									
PX 4585									
PX 4565									
Solvent-based	Efka® PB 2001S PB 2020S SI 2041 SI 2042		Efka® PU 4009 PU 4010 PU 4063	Efka® FA 4608 FA 4663			Efka® FL 3740 FL 3755 SL 3030 FL 3287		Tinuvin® 477 249 1130 5100 5151 5071
Universal Systems	Efka® PB 2770			Dispex® Ultra FA 4420 FA 4425 FA 4431			Efka® SL 3288 SL 3299 FL 3782		

New product

Architectural market segments

Exterior Coatings



Coatings for the outside of buildings

- **Façade dispersion paint**
- **Silicate paint**
- **Wood decorative coatings**
- **Trim Paints**
-

Interior Coatings



Coatings for the inside of buildings

- **Interior wall paint**
- **Kitchen paint**
- **Joinery**
-

Architectural Coatings trends – Highlight products

Coatings trends

Improved **performance & durability** of coatings



Defoamers

FoamStar®
ED 2528
SI 2281

Dispersing Agents

Dispex®
CX 4248/4348
HIDE CX 4540

Rheology Modifiers

Rheovis®
HS 1153
HS 1184
PU 1333
HS 1101

Wetting agents surface modifiers

Hydropalat®
WE 3229
Efka®
SL 3299

Light stabilizers

Lignostab®
530

Improved **sustainability**



Efka®
SI 2041/42
PB 2770
Foamaster®
NO 2331

Dispex®
CX 4636

Rheovis®
HS 1303 EB
PU 1333

Hydropalat®
WE 3645
WE 3625

Tinuvin®
249-DW ECO
5321-DW ECO

Reduced costs
of painting



Foamaster®
MO NXZ-2
MO 2163
FoamStar®
ED 2521
ED 2523

Dispex® Ultra
PX 4290

Rheovis®
HS 1153
PU 1192
PU 1256 EC

Hydropalat®
SL 3683

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Highlight Products (1/2)



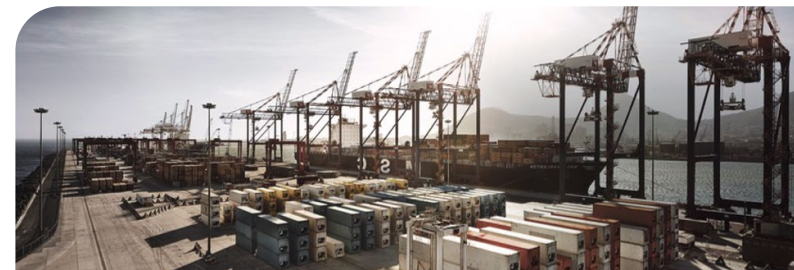
Dispex® CX 4248/ CX 4348

Hydrophobic dispersants for improved coatings properties



Hydropalat® WE 3120

Sustainable non-ionic surfactant for improved substrate wetting



FoamStar® SI 2281

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



Foamaster® NO 2331

Environmentally sound, natural oil-based alternative with extreme broad food contact compliance



Rheovis® HS 1101

Biocide-free HASE thickener, providing a thixotropic flow curve for an optimized leveling and sag balance



Rheovis® PU 1333

Combining outstanding high-shear efficiency with very Newtonian rheology profiles

Highlight Products (2/2)



Foamaster® MO 2163

Defoamer with excellent price/performance balance for decorative paints



Dispex® Ultra PX 4290

Universal water-based dispersing agent for a broad selection of pigments



Hydropalat® SL 3683

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

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Summary

- **BASF offers a full range of Formulation Additives and Performance Additives for Architectural Coatings**
- We make today's challenge tomorrow's solution meeting emerging architectural coatings trends improving
 - **Performance & durability**
 - **Sustainability**
 - **Reduced costs** of painting
- Our **sustainable portfolio for architectural 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 architectural coatings needs – Explore. Formulate. Collaborate.



BASF Formulation and Performance Additives

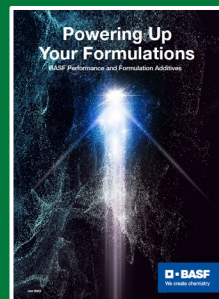
Powering Up Your Formulations with cutting-edge expertise



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**.



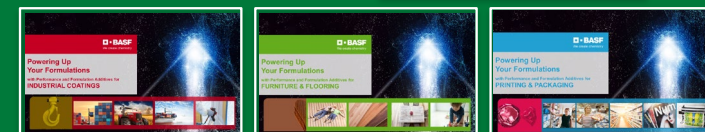
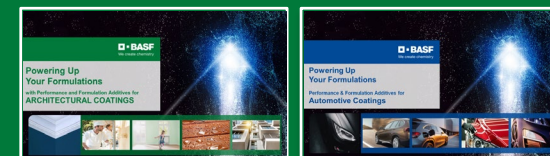
Global Product Catalogue

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



Sustainability Presentation

With our sustainable measures and our renewable additive 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

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