

# The challenge:

Interior paints are something very special. They are where people sleep and often also where they work or play. They have a great influence on our sense of space and well-being. They are used by both professionals and consumers. So, the requirements for interior coatings are correspondingly broad. Here, visual requirements meet application requirements and both must be in harmony with safety and health.

APPERTANCE AND A

# The mission:

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We at BASF are here to support you with our technical expertise and industry know-how, we are constantly working on new solutions and innovations to meet your needs:

Air quality, ease and speed of application, ease to clean, we are prepared so you can perform.

Let's make a green wall, a green solution.

Titanium Dioxide Indoor Air Quality	Blocking stains
Eco-friendly Formaldehyde Anti-allergic	Biocides DIY
Easy to apply Decoration Low VOC	Ammonia-free
Zinkoxyd MIT free Wet scrub resistance	Lean Manufacturing
Eco Labels Biocide free Spatier	vesistance
Low-odor Wet adhesion Burnish resistance	<b>Eunctional Paints</b>
VAE replacement Total Cost of Formulati	Cleanability
	U • BASF We create chemistry

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# Explore our solutions that make a green wall a clean solution



## Lab Assistant for Architectural Coatings

A web-based application that makes it easier than ever for you to find BASF products and formulation ideas and use them to create your architectural coatings.

- Find the right ingredient
- 🞍 Get all relevant data
- Formulate your coating
- Compare products or formulations
- Access expert support
- 🐺 Order your sample
- Individualize your own account







# Biomass Balance Approach for Architectural Coatings

Lab Assistant

Save fossil resources and CO<sub>2</sub> emissions

- Drives the use of sustainable renewable resources
- Same product performance no need for reformulation
- Independently certified by third party
- Surprise your customers with added ecological benefit of your paint!

All our solutions can be biomass balanced



## **Explore dispersions & additives for Interior applications**



# Acronal® 6292

# Acronal<sup>®</sup> 6292 is an environmentally advanced aqueous dispersion of a styrene acrylic copolymer.

- Market standard of biocide-free paints
- Excellent paint performance properties: wet scrub resistance, durability, cleanability
- Increased pigment binding enables cost-competitiveness

			μ	Viscosity (mPas)	20 - 100
	Application	Healthy Interior Paints	$^{\circ}_{\circ}$	Particle size (µm)	0.17
	MFFT (°C)	5	$\bigcirc$	Solids content (%)	50
$\langle \rangle$	Recommend	led for low VOC systems	~f~	pH value	6.5 - 7.5
			-		

Combine Acronal<sup>®</sup> 6292 with Dispex<sup>®</sup> CX 4248 to boost efficiency further



# Acronal<sup>®</sup> ECO 6270

Acronal<sup>®</sup> ECO 6270 is an environmentally advanced aqueous dispersion of a straight acrylic copolymer without compromise.

- Low VOC
- Broad formulation latitude
- Luxury-looking indoor paints

			Ŷ	Viscosity (mPas)	50-500
$\checkmark$	Application	Low-VOC Premium Paints	$^{\circ}$	Particle size (µm)	0.1
	MFFT (°C)	2	$\bigcirc$	Solids content (%)	50
$\bigcirc$	Recommend	ed for low VOC systems	-f-	pH value	7.0-8.5

Combine Acronal<sup>®</sup> ECO 6270 with Dispex<sup>®</sup> CX 4320 and Rheovis<sup>®</sup> PE 1330 to create a low VOC premium interior paint



# Acronal<sup>®</sup> Plus 6282

Acronal<sup>®</sup> PLUS 6282 is an environmentally advanced aqueous dispersion of a straight acrylic copolymer for matt paints.

- Outstanding resistance against hydrophilic and hydrophobic stains
- Combines cleanability with dry burnishing resistance

		0	Ĥ	Viscosity (mPas)	50-500
$\checkmark$	Application	Stain resistant interior paints	$^{\circ}$	Particle size (µm)	0.15
	MFFT (°C)	2	$\bigcirc$	Solids content (%)	48
$\langle \rangle$	Recommend	ed for low VOC systems	-fr	pH value	7.0-8.5
	MFFT (°C)	2		Solids content (%)	48

Combine Acronal<sup>®</sup> Plus 6282 with Dispex<sup>®</sup> CX 4320 and Rheovis<sup>®</sup> HS 1212 to create a matt interior paint that is easy to clean

# See it in action: Easily cleanable interior paint 🗆 • BASE

Acronal® S 589

# Acronal<sup>®</sup> S 589 is an environmentally advanced aqueous dispersion of a styrene acrylic copolymer.

- Excellent water resistance
- Blocking properties against nicotine and tannins

		Interior paint	Ŷ	Viscosity (mPas)	80-300
	Application	with blocking properties	$^{\circ}_{\circ}$	Particle size (µm)	0.15
ſſ	MFFT (°C)	1	$\bigcirc$	Solids content (%)	52
$\langle \rangle$	Recommend	ed for low VOC systems	-f-	pH value	6.5-8.0

Combine Acronal<sup>®</sup> S 589 with FoamStar<sup>®</sup> ED 2522 to formulate a low odor tannin blocking primer



# Acronal® ECO 6380

### Acronal<sup>®</sup> ECO 6380 is an environmentally advanced healthfriendly aqueous dispersion of a straight acrylic copolymer

- Excellent wet adhesion
- Blocking resistance
- Anti-allergic paint formulation possible (region specific)

			Ŷ	Viscosity (mPas)	50-400
	Application	Interior paints (Iow PVC)	$^{\circ}$	Particle size (µm)	0.1
	MFFT (°C)	2	$\bigcirc$	Solids content (%)	47.5
$\langle \rangle$	Recommend	ed for low VOC systems	-f-	pH value	7.0-8.5

Combine Acronal<sup>®</sup> ECO 6380 with Dispex<sup>®</sup> AA 4030 and Rheovis<sup>®</sup> PE 1330 to formulate an interior paint with good blocking resistance



# Acronal<sup>®</sup> HIDE 6610



Acronal<sup>®</sup> HIDE 6610 is a universal pure acrylic binder that optimizes cost of formulation through superior Titanium **Dioxide efficiency.** 

- Coalescent agent is needed to enable film-formation
- Excellent thickener interaction

	Application	Multi-purpose paints	(H)	Viscosity (mPas)	100-400
Ĩ	MFFT (°C)	18	00	Particle size (µm)	0.1
-fr	pH value	7.5-9.0		Solids content (%)	46

Combine Acronal<sup>®</sup> HIDE 6610 with Loxanol<sup>®</sup> CA 5308 and **Dispex<sup>®</sup> AA 4030 to formulate a multi-purpose paint** 



### **Formulation additives: focus products for Interior Premium Paints**

Defoamers	Dispersing	g agents	Rheology modifiers	Film-forming agents
	High molecular weight	Low molecular weight		
Foamaster®	<b>Dispex</b> <sup>®</sup>	Dispex Ultra <sup>®</sup>	Rheovis®	Loxanol®
MO 2134	AA 4040	FA 4480	HS 1152	CA 5308
MO 2150	AA 4140		HS 1162	CA 5336
MO NDW	CX 4248		HS 1169	
MO NXZ	CX 4320		HS 1212	
FoamStar®	CX 4345		PE 1330	
ED 2521	Dispex Hide <sup>®</sup>		PU 1191	
ED 2523	AA 4545		PU 1291	
	CX 4542		PU 1340	





# High-performance, polymeric dispersing agent for improved wet scrub resistance and reduction of TiO2

Allows for reduction of total paints costs through decrease of binder and TiO2 contents while maintaining similar paint properties

Application wall paints	Ŷ	Viscosity (mPas)	~2.000	
\$ VOC Content (%) <0.1	$^{\circ}_{\circ}$	Solids content (%)	~25.0	

Combine Dispex<sup>®</sup> CX 4248 with Acronal<sup>®</sup> 6292 to boost efficiency in modern interior paints



# Dispex<sup>®</sup> HIDE CX 4542

Dispex<sup>®</sup> HIDE CX 4542 is an anionic dispersing agent based on polycarboxylic acid which is especially designed to maximize the utilization of titanium dioxide in combination with fillers and extenders

- Broad application range
- Excellent interaction with hydrophobic thickeners

Application	Interior Paints	Ŷ	)	Viscosity (mPas)	~50
VOC Conten	t (%) <0.1	$^{\circ}_{\circ}$		Solids content (%)	~25.0

Combine Dispex<sup>®</sup> HIDE CX 4542 with Acronal<sup>®</sup> 6292 to optimize interior paint formulations





Rheovis<sup>®</sup> PE 1330 is an excellent newtonian rheology modifier for aqueous coatings that provides high ICI viscosity.

- Excellent high shear thickener
- Imparts excellent coating build up

		Ĥ	Viscosity (mPas)	~4.500
Application	Low VOC Interior Paints	00	Solids content (%)	30.0
VOC Conten	t (%) <0.1	\$6	Tin free	

Combine Rheovis<sup>®</sup> PE 1330 with Acronal<sup>®</sup> 6292 to optimize paint feel





# Ultra-low SVOC mid-range emulsion defoamer for medium to high PVC architectural coatings

- Excellent foam suppression in premium flat and semi-gloss paints based on acrylic, styrene acrylic and VAE binder systems
- Excellent long-term stability
- Highly compatible
- No fogging

SVOC (ppm)	~ 2000 acc. to TÜV test (DIN 11890-2)	Ŷ	Viscosity (mPas)	~2000	
\$ VOC Con	tent (%) <0.1	$^{\circ}_{\circ}$	Solids content (%)	~27.5	

Combine FoamStar<sup>®</sup> ED 2523 with Acronal<sup>®</sup> 6292 to formulate a low VOC premium interior paint



## **BASF offers a broad range of MIT-free products for Interior Paints(1)**

#### **BASF Solutions**

Product name	Component	Benefits
Acronal <sup>®</sup> 6292 NB	Dispersion	Outstanding wet scrub resistance, low odor, for low VOC formulations, exceptional cost performance. Market standard for biocide-free paints
Acronal <sup>®</sup> ECO 6270 NB	Dispersion	Broad formulation latitude for low VOC premium paints
Acronal <sup>®</sup> Plus 6282 NB	Dispersion	Soft pure acrylic for emission-free premium flat paints with superior cleanability
Acronal <sup>®</sup> S 589 NB	Dispersion	Excellent film forming properties and hydrophobicity, can be used for tannin- and nicotine-blocking primers, suitable for wet room paints
Acronal <sup>®</sup> ECO 6380	Dispersion	Excellent wet adhesion, broad formulation latitude, good hiding power, for low VOC formulations, also for anti-allergic paints
Acronal <sup>®</sup> HIDE 6610 NB	Dispersion	Universal pure acrylic binder that optimizes cost of formulation through superior Titanium Dioxide efficiency

MIT has not been intentionally added

23 NB= current product with new biocide package



## **BASF offers a broad range of MIT-free products for Interior Paints(2)**

#### **BASF Solutions**

Product name	Component	Benefits
Dispex <sup>®</sup> AA 4040	Dispersing Agent	Standard dispersing agent for inorganic fillers and pigments; low polydispersity leading to most efficient dispersing properties and liquefying effect
Dispex <sup>®</sup> AA 4140	Dispersing Agent	Standard dispersing agent for inorganic fillers and pigments; low polydispersity leading to most efficient dispersing properties and liquefying effect
Dispex <sup>®</sup> CX 4248	Dispersing Agents	High performance, polymeric dispersing agent for improved wet scrub resistance and reduction of TiO2
Dispex <sup>®</sup> CX 4320	Dispersing Agent	Excellent dispersing performance; improves gloss; improves wet-scrub resistance; improves blocking resistance; excellent ZnO-compatibility
Dispex <sup>®</sup> HIDE AA 4545	Dispersing Agent	All purpose dispersing agent for TiO2, fillers and extenders, enhances opacity, excellent performance in all types of formulations, economical
Dispex <sup>®</sup> HIDE CX 4542	Dispersing Agent	Hydrophobic dispersing agent for opacity enhancement, helps to reduce water sensitivity, excellent interaction with hydrophobic thickeners

\*MIT has not been intentionally added

## **BASF offers a broad range of MIT-free products for Interior Paints(3)**

#### **BASF Solutions**

Product name	Component	Benefits
Foamaster® MO 2134	Defoamer	Universal defoamer for aqueous emulsion-based coatings and plasters with outstanding long-term efficiency
Foamaster <sup>®</sup> MO 2150	Defoamer	Efficient universal defoamer for aqueous emulsion-based coatings and plasters; specifically designed for flat aqueous coatings; exceptional product stability
Foamaster <sup>®</sup> MO NDW	Defoamer	Universal defoamer for aqueous emulsion-based coatings and plasters; specifically designed for flat aqueous paints and coatings; high compatibility – does not cause fish eyes
Foamaster <sup>®</sup> NXZ	Defoamer	Universal defoamer for aqueous emulsion-based coatings and plasters; specifically designed for flat aqueous coatings and adhesives; good compatibility– does not cause fish eyes
Loxanol <sup>®</sup> CA 5308	Coalescent	Highly efficient coalescing agent for interior/exterior paints, elastomeric coatings, textured finishes and wood coatings
Rheovis <sup>®</sup> PU 1340	Rheology Modifier	Highly effective high-shear rheology modifier for paints and coatings where a Newtonian rheology profile is desired

\*MIT has not been intentionally added

## **Ecolabel assessment – Formulation Additives (1)**

#### **BASF Solutions**

Product name	EU Ecolabel	Nordic Ecolabel	Blue Angel	
	Paints and Varnishes 2014/312/EU	Nordic Swan Indoor Paints and Varnishes Version 3.4, May 18	Low-emission interior wall paints RAL UZ 102 Ver.: Jan 15	BASF offers a comprehensive
Foamaster <sup>®</sup> MO 2134	Suitable*	Suitable	Suitable	Ecolabel assessment for Formulation Additives. Over 100 relevant pro-
Foamaster <sup>®</sup> MO 2150	Suitable*	Suitable	Suitable	ducts have been assessed.
Foamaster <sup>®</sup> MO NDW	Suitable	Suitable	Suitable	
Foamaster <sup>®</sup> MO NXZ	Suitable	Suitable	Suitable	Don't lose time due to missing Ecolabel evaluation. Check the
FoamStar <sup>®</sup> ED 2521	Suitable*	Suitable*		status conveniently on the lab
FoamStar <sup>®</sup> ED 2523	Suitable*	Suitable*	Suitable	
Dispex <sup>®</sup> AA 4040	Suitable	Suitable	Suitable	_
Dispex <sup>®</sup> AA 4140	Suitable*	Suitable	Suitable	
Dispex <sup>®</sup> CX 4320	Suitable	Suitable	Suitable	_

\*with restrictions: see/request Ecolabel statement for details

<sup>26</sup> It is recommended to request and check the latest product statement at <u>ed-psr@basf.com</u> before using the product in a formulation.



# **Ecolabel assessment – Formulation Additives (2)**

#### **BASF Solutions**

Product name	EU Ecolabel	Nordic Ecolabel	Blue Angel	
	Paints and Varnishes 2014/312/EU	Nordic Swan Indoor Paints and Varnishes Version 3.4, May 18	Low-emission interior wall paints RAL UZ 102 Ver.: Jan 15	BASF offers a comprehensive
Dispex <sup>®</sup> CX 4248	Suitable	Not suitable	Suitable	Ecolabel assessment for Formula Additives. Over 100 relevant pro-
Dispex <sup>®</sup> CX 4345	Not suitable	Suitable	Not suitable	ducts have been assessed.
Dispex <sup>®</sup> HIDE AA 4545	Suitable	Suitable	Suitable	
Dispex <sup>®</sup> HIDE CX 4542	Suitable	Suitable	Suitable	Don't lose time due to missing Ecolabel evaluation. Check the
Dispex <sup>®</sup> Ultra FA 4480	Suitable*	Suitable*	Suitable	status conveniently on the lab assistant
Rheovis <sup>®</sup> HS 1152	Suitable	Suitable	Suitable	
Rheovis <sup>®</sup> HS 1162	Suitable	Suitable	Suitable	-
Rheovis <sup>®</sup> HS 1169	Suitable	Suitable	Suitable	

\*with restrictions: see/request Ecolabel statement for details

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## **Ecolabel assessment – Formulation Additives (3)**

#### **BASF Solutions**

Product name	EU Ecolabel	Nordic Ecolabel	Blue Angel
	Paints and Varnishes 2014/312/EU	Nordic Swan Indoor Paints and Varnishes Version 3.4, May 18	Low-emission interior wall paints RAL UZ 102 Ver.: Jan 15
Rheovis <sup>®</sup> HS 1212	Suitable	Suitable	Suitable
Rheovis <sup>®</sup> PE 1330	Suitable*	Suitable*	Suitable
Rheovis <sup>®</sup> PU 1191	Suitable	Suitable	Suitable
Rheovis <sup>®</sup> PU 1291	Suitable	Suitable	Suitable
Rheovis <sup>®</sup> PU 1340	Suitable*	Suitable	Suitable
Loxanol <sup>®</sup> CA 5308	Suitable	Suitable	Not suitable
Loxanol <sup>®</sup> CA 5336	Suitable	Suitable	Suitable

BASF offers a comprehensive Ecolabel assessment for Formulation Additives. Over 100 relevant products have been assessed

Don't lose time due to missing Ecolabel evaluation. Check the status conveniently on the lab assistant

\*with restrictions: see/request Ecolabel statement for details

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<sup>28</sup> It is recommended to request and check the latest product statement at <u>ed-psr@basf.com</u> before using the product in a formulation.

# We create chemistry

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 product, 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. When handling these products, advice and information given in the safety data sheet must be complied with. Further, protective and workplace hygiene measures adequate for handling chemicals must be observed.

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