

# ECONYL<sup>®</sup>



## In Plant colorants

for water based  
coatings



**LEONICE<sup>®</sup>**  
YOUR TINTING PARTNER

Work as a TEAM to deliver to our customers  
high quality products, substantial services and competitive prices.  
To be your real TINTING PARTNER.

# ECONYL<sup>®</sup> In Plant colorants



**ECONYL<sup>®</sup>** colorants are highly concentrated, binder-free and solvent-free, ready-to-use water-based pigment dispersions.

**ECONYL<sup>®</sup>** colorants are environment-friendly APEO & VOC free (VOC < 1 g/L) in accordance with EU-ECOLABEL and are recommended for In-Plant tinting of various water and solvent based paint systems.

## ECONYL<sup>®</sup> Compatibility

**ECONYL<sup>®</sup>** colorants are compatible with a very wide spectrum of resin systems such as:

- VAM copolymer emulsions
- Acrylic copolymer emulsions
- Styrene acryl emulsions
- Alkyd resins emulsions
- Thermoplastic acrylic resins
- Long and medium oil alkyd resins
- Woodstains (water & Solvent based),
- Water based epoxies
- PVA
- Veova

**ECONYL<sup>®</sup>** colorants offer a highly competitive price-to-quality ratio while containing premium quality pigments. Maximum stability and dispersibility are guaranteed due to patented wetting and dispersing additives.

**ECONYL<sup>®</sup>** colorants finely ground to be exceptionally suitable for gloss and satin paints, both for water-based and solvent-based products. Unlike many commercially available colorants, they have a minimal impact on paint properties such as gloss, rheology, hardness, and drying time.

## ECONYL<sup>®</sup> Advantages

### Specifications

**ECONYL<sup>®</sup>** colorants are manufactured under very tight specifications of both volumetric and gravimetric color strength, as well as for the colorimetric values of DE, DH and DC:

Volumetric color strength	100 ± 2.5%
Gravimetric color strength	100 ± 2.5%
DE	≤ 0.70
DH (Hue)	0 ± 0.5
DC (Chroma)	0 ± 0.5

### Color Matching

**ECONYL<sup>®</sup>** colorants are also available with color matching support through the **LEOMIX<sup>®</sup> PRO** software for In-Plant use.

This enables cost-efficient, accurate, and fast production of any requested color both manual and automatic.

# ECONYL<sup>®</sup> In Plant colorants

**ECONYL<sup>®</sup>** colorants are the latest generation low VOC and APEO free aqueous dispersions of organic and inorganic pigments design to meet special technical requirements.

**ECONYL<sup>®</sup>** colorants are an excellent choice for the following applications:

- Paints and texture coatings
- Wood finishing
- Natural rubber
- Textile
- Paper
- Soaps detergents and cleaning agents
- Latex dispersions
- Nonwoven
- Seed treatment



## Your Tinting Partner

LEONICE is a European multinational company with its core business into manufacturing colorants and offering turn-key Point Of Sales tinting systems to the paint manufacturers.

LEONICE is formed by the pioneers of tinting technology in Europe with an aim of providing the Best-In-Class colorants combined with LEOMIX<sup>®</sup> Color System marketing platform to enable a competitive edge to our customers in their respective markets.


















LEONICE's modern production facilities combined with long production experience & high production capacity ensures consistent quality within very tight specifications and prompt delivery. Innovative production process & filling makes efficient production of customized colorants including special packaging and labelling.

Our teams of specialists based in our state of the art laboratories offer a full range of products & services to meet specific requirements of the individual paint manufacturer such as:













- Color matching services and database creation
- Customized Tinting Solutions
- Development of Drop In colorants
- Customized High Exterior Durability & Solar Reflection coloring systems

Exclusive technology allows us to upgrade existing tinting systems with minimum cleaning effort and delay. Our customers can use new generation products, save money and effort.

# ECONYL<sup>®</sup> Organic colorants

Semi-Mass Tone	COLOR	CODE	Color Index	Pigment Content in %*	Light Fastness*		Weathering Fastness*		Heat Fastness*	Alkali Fastness*
					S-MT	1/25 SD	S-MT	1/25 SD		
	YELLOW	YE1	PY 74	52	7-8	6-7	4-5	3	140°C	5
	YELLOW	YE2	PY 3	52	7	6	4	3	140°C	5
	YELLOW	YHF	PY 154	30	8	8	5	5	180°C	5
	YELLOW	YR2	PY 65	44	7	6	4	3	140°C	5
	YELLOW	YR1	PY 83	40	7-8	6-7	4	3	200°C	5
	ORANGE	OR1	PO 73	40	8	7-8	5	4	180°C	5
	RED SCARLET	RHF	PR 168	24	8	8	5	5	180°C	5
	RED	RD1	PR 254	44	8	7	5	4	200°C	5
	RED	RLF	PR 112	48	6-7	6	4	3	180°C	5
	MAGENTA	MG1	PR 122	30	7-8	7	4-5	4	200°C	5
	VIOLET RED	VR1	PV 19	25	6-7	7	3-4	3-4	200°C	5
	VIOLET	VL1	PV 23	30	8	7-8	4-5	4	160°C	5
	BLUE	BL1	PB 15:1	47	8	8	5	5	200°C	5
	BLUE	BL3	PB 15:3	52	8	8	5	5	200°C	5
	BLUE	BL4	PB 15:4	40	8	8	5	5	200°C	5
	GREEN	GR1	PG 07	52	8	8	5	5	200°C	5
	BLACK	BK2	PBk 7	42	8	8	5	5	200°C	5

# ECONYL<sup>®</sup> Inorganic colorants

Semi-Mass Tone	COLOR	CODE	Color Index	Pigment Content in %*	Light Fastness*		Weathering Fastness*		Heat Fastness*	Alkali Fastness*
					S-MT	1/25 SD	S-MT	1/25 SD		
	BIVA YELLOW	YX1	PY 184	69	8	8	5	5	200°C	5
	YELLOW OXIDE	YX2	PY 42	65	8	8	5	5	180°C	5
	YELLOW OXIDE	YX3	PY 42	58	8	8	5	5	180°C	5
	ORANGE OXIDE	YOX	PY 42	58	8	8	5	5	200°C	5
	RED OXIDE (R)	RX1	PR 101	67	8	8	5	5	200°C	5
	RED OXIDE (B)	RX2	PR 101	66	8	8	5	5	200°C	5
	RED OXIDE (H)	RX3	PR 101	74	8	8	5	5	200°C	5
	COBALT BLUE	BX1	PB 28	60	8	8	5	5	200°C	5
	ULTRAMARINE BLUE	BX2	PB 29	58	8	8	4-5	4-5	200°C	5
	GREEN OXIDE	GX1	PG 17	70	8	8	5	5	200°C	5
	BLACK OXIDE	BKX	PBk 11	58	8	8	5	5	180°C	5
	WHITE	WX1	PW 6	70	8	n/a	5	n/a	200°C	5

\* These values should only be used as guidelines

# In-Plant Supplements

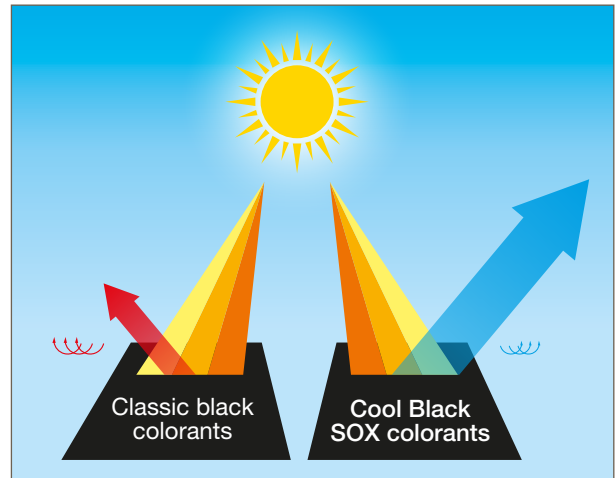
## ECONYL® Cool Black colorants

ECONYL® Cool Black colorants allows the production of unique grey to strong black colors with High Total Solar Reflection (TSR).

This enables the launching of premium series such as Heat Reflective Paints or Cool Paint.

Our In-house developed technology platform helps to create special databases based on TSR.

CODE	Color Index	Pigment Content*	TSR value
SOX 1	PBK 33	58%	14%
SOX 2	PBK 29	74%	24%
SOX 3	PBK 32	30%	42%



## ECONYL® Transparent Oxide colorants

ECONYL® transparent Iron Oxide colorants are very finely ground, making them exceptionally suitable for wood varnishes and gloss paints.

At the same time, these transparent colorants do not affect important physical properties of the paint, such as weather resistance and UV protection.

Due to their transparent nature, the wood structure remains visible.

COLOR	CODE	Color Index	Pigment Content*
YELLOW OXIDE	TY-HC	PY 42	44%
RED OXIDE	TR-HC	PR 101	44%



## ECOWHITE SU® brightener

ECOWHITE SU® is a VOC free optical brightener for water and solvent based paints. Its unique composition shows a whitening effect even at very low concentrations allowing a high quality brilliant white appearance to the paint.



