

# Efka® PX 4330

#### General

High-molecular weight dispersing agent

Efka® PX 4330 is made with Controlled Free Radical Polymerization (CFRP) technology, which allows producing polymeric dispersants with defined polymer architecture and a low poly-dispersity index.

Efka® PX 4330 is suitable for stabilizing pigments in solvent-based coatings. Beside its broad compatibility in solvent-based coatings, it offers:

- Broad pigment affinity
- Good stability against flooding, floating and flocculation
- Strong viscosity-depressing effects

#### **Chemical nature**

Acrylic block copolymer

## **Properties**

### **Physical form**

Clear brownish liquid

#### **Technical data**

(not supply specification)

Solvent	(20 °C)	1-Methoxy-2-propyl acetate
Density	(20 °C)	1.01 – 1.04 g/cm <sup>3</sup>
Solid content	(1h at 120 °C)	69.0 – 71.0 %
Amine value	(20 °C)	27 – 31 mg KOH/g
Color number	Gardner (20 °C)	≤ 9

## **Application**

Efka® PX 4330 has excellent compatibility with most resin systems used in solvent-based coatings and is especially suitable for the production of Resin Containing Pigment Concentrates (RCPC) in combination with a multi-compatible dispersing resin.

Decorative coatings	Industrial coatings	Automotive coatings
Solvent-based alkyds	Solvent-based 2-pack PUR	OEM: acrylic/melamine
	Solvent-based 2-pack acrylics	OEM: polyester/melamine
	Solvent-based NC	Refinish: 2-pack PUR
	Solvent-based epoxy	

Guideline formulations for resin-containing pigment concentrates (RCPC):

	Cromophtal <sup>®</sup> Yellow L 1061 HD Sun Chemical	Sicopal <sup>®</sup> Yellow L 1100 Sun Chemical	Irgazin <sup>®</sup> Orange L 3250 HD Sun Chemical
Colour Index (pigment)	Yellow 151	Yellow 184	-
Efka® PX 4330	6.70	2.70	4.80
Laropal <sup>®</sup> A 81	31.80	24.00	30.70
pigment	36.00	65.00	42.00
1-methoxy-2-propyl acetate	21.50	4.30	18.50
Butylglycol acetate	4.00	4.00	4.00
	100.00	100.00	100.00
	Cinquasia <sup>®</sup> Violet L 5120	Bayferrox® 130 M	Irgazin <sup>®</sup> Red L 3670 HD
	Cinquasia® Violet L 5120 Sun Chemical	Bayferrox® 130 M Lanxess	Irgazin <sup>®</sup> Red L 3670 HD Sun Chemical
Colour Index (pigment)	•	•	_
Colour Index (pigment)	Sun Chemical	Lanxess	Sun Chemical
Colour Index (pigment)  Efka® PX 4330	Sun Chemical	Lanxess	Sun Chemical
	Sun Chemical Violet 19	Lanxess Red 101	Sun Chemical Red 254
Efka® PX 4330	Sun Chemical Violet 19 9.00	Lanxess Red 101 2.20	Sun Chemical Red 254 6.44
Efka® PX 4330 Laropal® A 81	Sun Chemical Violet 19  9.00 35.00	Lanxess Red 101  2.20 22.00	Sun Chemical Red 254  6.44 30.75
Efka® PX 4330 Laropal® A 81 Pigment 1-methoxy-2-propyl	Sun Chemical Violet 19  9.00 35.00 20.00	Lanxess Red 101  2.20 22.00 67.00	Sun Chemical Red 254  6.44 30.75 41.00

The addition levels are recommended for starting formulations. For optimum results a ladder study should be performed in the customer specific binder formulation

#### **Recommended concentrations**

Calculation method to estimate the minimum required amount of active dispersant on pigment:

– 30 % on BET value
– 45 % on BET value
– 20 % on DBP value
– 50 % on DBP value
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Efka® PX 4330 should be incorporated in the mill base before adding the pigments.

## **Storage**

Efka® PX 4330 should be stored in a cool dry place.

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#### Validity

This Technical Data Sheet is valid for all versions of the Efka® PX 4330.

#### Safety

When handling this product, please comply with the advice and information given in the safety data sheet 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 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.

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