

# Efka<sup>®</sup> PX 4330

## general

high-molecular-weight dispersing agent

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

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

- high color strength
- good stability against flooding, floating and flocculation
- strong viscosity-depressing effects

## chemical nature

acrylic block copolymer

## Properties

### physical form

clear, brownish liquid

### storage

Efka<sup>®</sup> PX 4330 should be stored in a cool dry place.

### typical properties (no supply specification)

solvent	1-methoxy-2-propyl acetate
density at 20 °C (68 °F)	~ 1.03 g/cm <sup>3</sup>
active ingredients	~ 70 %
amine value	~ 29 mg KOH/g
color	≤ 9

## Application

Efka<sup>®</sup> PX 4330, due to its excellent compatibility in most resin systems used in solvent-based coatings, 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):

	<b>Cromophtal® Yellow L 1061 HD</b>	<b>Sicopal® Yellow L 1100</b>	<b>Irgazin® Orange L 3250 HD</b>
Colour Index (pigment)	Yellow 151	Yellow 184	–
Efka® PX 4330	6.70	2.70	4.80
Laropal® 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

  

	<b>Cinquasia® Violet L 5120</b>	<b>Bayferrox®<sup>1</sup> 130 M Lanxess</b>	<b>Irgazin® Red L 3670 HD</b>
Colour Index (pigment)	Violet 19	Red 101	Red 254
Efka® PX 4330	9.00	2.20	6.44
Laropal® A 81	35.00	22.00	30.75
pigment	20.00	67.00	41.00
1-methoxy-2-propyl acetate	32.00	4.80	17.81
butylglycol acetate	4.00	4.00	4.00
	100.00	100.00	100.00

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

<sup>1</sup> registered trademark of Bayer AG

**recommended concentrations**

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

inorganic pigments	10–15 % on oil absorption value
organic pigments (green, blue, violet)	15–30 % on BET value
organic pigments (yellow, orange, red)	15–45 % on BET value
carbon blacks (LCF)	15–20 % on DBP value
carbon blacks (HCC)	40–50 % on DBP value

Efka® PX 4330 should be incorporated in the mill base before adding the pigments.

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**Validity**

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

**Safety**

When handling these products, 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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