Technical Information

Efka® PX 4330

(old : Efka® 4330)



general

high-molecular-weight dispersing agent

Efka® 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® 4330 is suitable for stabilizing pigments in solvent-based coatings. Aside from 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

shelf life

Efka® PX 4330 should be stored in a dry and cool place. When kept in original unopened containers, it can be stored for up to 4 years from the date of manufacture.

typical properties (no supply specification)

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

Application

Efka® PX 4330, due to the very wide compatibility in most current systems used in solvent-based coatings, is especially suitable for the production of Resin Minimal Pigment Concentrates (RMPC) 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-minimal pigment concentrates (RMPC)

	Irgazin [®] Yellow 2088	Sicopal [®] Yellow L 1100	Irgazin [®] Orange 2037
Colour Index (Pigment)	Yellow 151	Yellow 184	_
Efka [®] 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
	Cinquasia [®] Violet R NRT-201-D	Bayferrox ^{®1} 130 M	Irgazin [®] Red 2030
	-	Lanxess	
Colour Index (Pigment)	Violet 19	Red 101	Red 254
Efka [®] 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

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recommended concentrations

Calculation method to estimate the minimum required amount of active ingredients on pigment (solid dispersant on ...):

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

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

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

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