Efka[®] PX 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 [®] PX 4330 is suitable for stabilizing pigments in solvent-based coatings. Beside its broad compatibility in solvent-based coatings, it offers:		
	high color strengthgood stability against flooding, floating and flocculation		
	 strong viscosity-depressing effects 		
	acrylic block copolymer		
chemical nature	acrylic block copolymer		
chemical nature	acrylic block copolymer		
chemical nature Properties	acrylic block copolymer		
	acrylic block copolymer clear, brownish liquid		
Properties		cool dry place.	
Properties physical form storage	clear, brownish liquid		
Properties physical form storage typical properties	clear, brownish liquid Efka [®] PX 4330 should be stored in a solvent	cool dry place. 1-methoxy-2-propyl acetate ~ 1.03 g/cm ³	
Properties physical form storage	clear, brownish liquid Efka [®] PX 4330 should be stored in a	1-methoxy-2-propyl acetate	

color

Application

Efka[®] 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.

≤ **9**

decorative coatings	industrial coatings	automotive coatings
solvent-based alkyds	solvent-based 2-pack PUR solvent-based 2-pack acrylics	OEM: acrylic/melamine OEM: polyester/melamine
	solvent-based NC solvent-based epoxy	refinish: 2-pack PUR
	Solvent-based epoxy	

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

	Cromophtal®	Sicopal [®] Yellow	Irgazin®
	Yellow L 1061 HD	L 1100	Orange L 3250 HD
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 Cinquasia ®	100.00 Bayferrox ^{®1} 130 M	100.00
	Violet L 5120	Lanxess	HD
Colour Index (pigment)	Violet L 5120	Lanxess	HD
	Violet 19	Red 101	Red 254
Efka [®] PX 4330	Violet 19	Red 101	Red 254
	9.00	2.20	6.44
,	Violet 19	Red 101	Red 254

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 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.		
Contacts worldwide			

Asia BASF East Asia Regional Headquarters Ltd 45/F, Jardine House No. 1 Connaught Place Central Hong Kong USA China formulation-additives-asia@basf.com

Europe BASF SE Formulation Additives 67056 Ludwigshafen Germany formulation-additives-europe@basf.com North America **BASF** Corporation 11501 Steele Creek Road Charlotte, NC 28273 formulation-additives-nafta@basf.com

South America BASF S.A Rochaverá - Crystal Tower Av. das Naçoes Unidas, 14.171 Morumbi - São Paulo-SP Brazil formulation-additives-south-america@basf.com

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.

 $^{(\!8\!)}$ = registered trademark, TM = trademark of BASF Group, unless otherwise noted