## **Technical Information**

# Efka® PX 4350



## general

high-molecular-weight dispersing agent

Efka® PX 4350 is made by the Controlled Free Radical Polymerization (CFRP) technology, which allows producing polymeric dispersants with defined polymer architecture and a low polydispersity index. Efka® PX 4350 is suitable for solvent-based industrial and automotive coatings.

Efka® PX 4350 offers high efficiency in stabilizing pigments and demonstrates a wide compatibility with many solvent-based resin systems.

- Newtonian rheology at high pigment loading
- high efficiency with and without a pigment synergist
- $\bullet$  especially suitable for optimum dispersion of  $\beta$  Cu-phthalocyanine pigments
- high gloss because of excellent compatibility and improved pigment dispersion

### chemical nature

acrylic block copolymer

# **Properties**

physical form

clear orange to reddish liquid

shelf life

Efka® PX 4350 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)	~ 1.04 g/cm <sup>3</sup>
active ingredients	~ 51 %
amine value	~ 12 mg KOH/g
color	≤ 14

# **Application**

Efka® PX 4350 is highly suitable to be used in Resin-Minimal Pigment Concentrates (RMPC) for a wide range of solvent-based industrial and automotive coatings.

industrial coatings automotive coatings

solvent-based 2-pack PUR
solvent-based 2-pack acrylics
Solvent-based 2-pack EP

OEM: acrylic/melamine
OEM: polyester/melamine
refinish: 2-pack PUR

Efka® PX 4350 delivers optimum performance on  $\beta$  Cu-phthalocyanine pigments. For  $\alpha$  Cu-phthalocyanine pigments it is recommended to also test .

guideline formulations for resin-minimal pigment concentrates (RMPC)

	Heliogen <sup>®</sup> Blue L7101F	Heliogen <sup>®</sup> Green L8730
Colour Index (Pigment)	PB 15:4	PG 7
Cfl/c/9 DV 4250	0.00	16.00
Efka® PX 4350	9.00	16.00
Methoxy propyl acetate	51.00	30.70
Laropal A81, 60% in MPA	25.00	33.30
Pigment	15.00	20.00
	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

## 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® PX 4350 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 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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