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Efka® PX 4753

Product description

Efka® PX 4753 is an advanced high molecular weight polymeric dispersant with a core-shell structure. It is suitable for solvent-based industrial and automotive coatings. Efka® PX 4753 was specifically developed to achieve best results in resin containing pigment concentrates (RCPC) based on Laropal® A 81. It offers the following benefits:

Key benefits

- High pigment loading at low mill base viscosities
- Excellent efficiency with and without a pigment synergist
- Especially suitable for optimum dispersion of α Cu-phthalocyanine pigments
- High gloss levels because of excellent compatibility
- Tin-free

Chemical nature

Polymer with pigment-affinic groups

Properties

Physical form

Clear yellowish liquid

Technical data
(no supply specification)

Solvent	1-methoxy-2-propyl acetate
Density at 20 °C (68 °F)	~ 1.03 g/cm^3
Active ingredients	~ 51 %
Amine value	~ 12 mg KOH/g
Color	≤ 7

Application

Efka® PX 4753 is highly suitable to be used in Resin-Containing Pigment Concentrates (RCPC) for a wide range of solvent-based industrial and automotive coatings (e.g. solvent-based 2-pack PUR, solvent-based 2 pack acrylics, solvent based 2 pack epoxy, OEM acrylic /melamine, OEM polyester/melamine, refinish 2-pack PUR).

Formulation guideline

Efka® PX 4753 delivers optimum performance on α Cu-phthalocyanine pigments. However, it is also effective with β Cu-phthalocyanine pigments.

Guideline formulation for a resin-minimal pigment concentrate (RCPC):

	Heliogen® Blue L 6950 (PB 15:1)
Efka® PX 4753	6.0
methoxy propyl acetate	67.30
Laropal A 81, 60 % in MPA	16.70
pigment	10.00
	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.

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 4753 should be incorporated in the mill base before adding the pigments.

Storage

Efka® PX 4753 should be stored in a dry and cool place

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Validity

This Technical Data Sheet is valid for all versions of the Efka® PX 4753.

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.