

# Efka<sup>®</sup> PA 4401

(old : Efka<sup>®</sup> 4401)



## general

high-molecular-weight dispersing agent

Efka<sup>®</sup> PA 4401 is a polymeric dispersant for stabilizing inorganic and organic pigments. This results in:

- improved gloss and DOI
- reduced flooding problems
- high color strength

Efka<sup>®</sup> PA 4401 is broadly compatible – from low- to high-polarity systems, including nitrocellulose.

Care should be taken with Efka<sup>®</sup> PA 4401 because of its tendency to yellowing and gelling when combined with chlorinated polymers. It also has a tendency to yellowing when combined with solvent-free epoxies.

## chemical nature

modified polyacrylate

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## Properties

### physical form

clear, slightly yellowish liquid

### shelf life

Efka<sup>®</sup> PA 4401 should be kept in a cool and dry 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	n-butyl acetate/2-butanol
density at 20 °C (68 °F)	~ 0.95 g/cm <sup>3</sup>
active ingredients	~ 50 %
flash point	24 °C (75°F)
amine value	~ 51 mg KOH/g
color	≤ 4

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## Application

Efka<sup>®</sup> PA 4401 is used for all kinds of high-quality solvent-based industrial coatings including automotive topcoats as well as pigment concentrates (see our concept for resin-minimal pigment concentrates [RMPC] based on Efka<sup>®</sup> polymeric dispersants).

**recommended concentrations**

Calculation method for the required amount of active ingredient on pigment:

inorganic pigments	10 % of oil absorption value
organic pigments	25–50 % of BET value
carbon blacks	20 % of DBP absorption value

Efka® PA 4401 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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