

Efka® PA 4450

general	polymeric dispersant for inorganic and organic pigments in non-aqueous, polar and non-polar coatings. Efka® PA 4450 avoids flocculation of pigments, increases color strength and also reduces grinding time.
chemical nature	carboxyl-functional polymer

Properties

physical form	clear liquid				
storage	Keep container tightly sealed. Ensure good ventilation/exhaustion at the workplace. Keep container in a well-ventilated place. Protect from temperatures below: 5 °C Protect from temperatures above: 35 °C				
typical properties (no supply specification)	<table> <tr> <td>density at 20 °C (68 °F)</td> <td>~ 1.02 g / cm³</td> </tr> <tr> <td>refractive index</td> <td>1.4790 – 1.4890</td> </tr> </table>	density at 20 °C (68 °F)	~ 1.02 g / cm ³	refractive index	1.4790 – 1.4890
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Application

Efka® PA 4450 can be used in all systems independent from its polarity, e. g. alkyds, PE, acrylics. 2-component polyurethane paints, 2-component epoxy paints or unsaturated polyester. The application in systems with low polarity is possible as well. It can be used in combination with all commonly used solvents. It shows good solubility even in isoparaffins which makes it very useful for these systems. Efka® PA 4450 shows excellent performance when used as a dispersant in pigment pastes.

recommended concentrations	0.2 - 1.0% calculated on total formulation						
	The dosage depends on the kind and amount of pigments. Incorporation during grinding is recommended. The optimum efficiency can be obtained if Efka® PA 4450, pigments and solvents are mixed before resin is added.						
	recommendation for a pigment paste based on long oil alkyd in isoparaffines:						
	<table> <tr> <td>iron oxide red</td> <td>6 - 7 p.b.w. on pigment</td> </tr> <tr> <td>phthalo green</td> <td>40 - 50 p.b.w. on pigment</td> </tr> <tr> <td>carbon black</td> <td>60 - 70 p.b.w. on pigment</td> </tr> </table>	iron oxide red	6 - 7 p.b.w. on pigment	phthalo green	40 - 50 p.b.w. on pigment	carbon black	60 - 70 p.b.w. on pigment
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phthalo green	40 - 50 p.b.w. on pigment						
carbon black	60 - 70 p.b.w. on pigment						

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Validity

This Technical Data Sheet is valid for all versions of the Efka PA 4450.

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.

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