

# efka® - 4500

## High molecular weight dispersant for deflocculation of pigments in aqueous coatings

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**Composition:** Modified polyacrylate with self-emulsifying properties

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<b>Data:</b>	Active ingredients	: 49 - 51%	
	Solvent	: sec. butanol	
	Density at 20 °C	: 0.91 - 0.93 g/cm <sup>3</sup>	DIN 51757
	Amine value	: 40 - 50 mg KOH/g	DIN 16945
	Flashpoint	: 24 °C	ISO 3679
	Colour	: max. 3	ISO 4630

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**Properties:** EFKA-4500 stabilizes the pigment dispersion of difficult inorganic and organic pigments and improves the following properties:

- gloss
- colour strength
- flocculation stability
- anti-flooding behaviour

EFKA-4500 has self-emulsifying properties, but due to the nature of the molecular structure, there is minimal effect on water-resistance. This is because EFKA-4500 is itself not water soluble.

Primary hydroxyl groups enable EFKA-4500 to crosslink with amino resins under stoving conditions, thus losing all hydrophilic character.

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**Application:** EFKA-4500 is recommended for use in all kinds of high quality water-based industrial coatings.

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**Addition:** Calculation method for the required amount of active ingredients on pigment :

Inorganic pigments	: 10% of oil absorption value
Organic pigments	: 25 - 50% of BET-value
Carbon blacks	: 20% of DBP absorption value

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**Incorporation:** EFKA-4500 should be incorporated in the mill base before adding the pigments.

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**Storage:** EFKA-4500 should be stored in a cool dry place. When kept in an original unopened container, it will keep up to 5 years from the date of manufacture. The expiry date is indicated on the container.

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**Packaging:** 25 kg and 180 kg non-returnable containers

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