

Efka[®] FA 4609 AN

Key benefits

- Polymeric wetting and dispersing agent with acidic groups
- Very efficient in wetting and dispersing of titanium dioxide, fillers, extenders and other inorganic pigments like iron oxides
- High pigment and filler loading
- Suitable for solvent-based systems
- Strong reduction of mill base viscosity
- Reduced pseudoplastic rheological behavior
- Increased hiding power
- Broad compatibility in a wide range of resin systems
- Suitable for high gloss systems

Chemical nature

Solution of a copolymer with acidic groups

Properties

Physical form

Clear, slightly yellowish liquid

Technical data

(not supply specification)

Solvent	Methoxy propyl acetate / alkylbenzenes 1:1	
Density	20 °C	~ 1.03 g/cm ³
Solids content	1 h at 120 °C	~ 52 %
Acid value	20 °C	~ 53 mg KOH/g
Colour Gardner	20 °C	<= 4

Application

Efka[®] FA 4609 AN shows outstanding performance in dispersing and stabilizing inorganic pigments in particular titanium dioxide. In combination with a universal solvent based grinding resin like Laropal[®] A 81, low mill base viscosities with reduced pseudo plastic flow behavior can be achieved. Furthermore, Efka[®] FA 4609 AN is highly suitable to disperse iron oxide pigments.

Formulation guideline

Efka® FA 4609 AN is suitable for many coating systems such as:

- Automotive OEM and refinish coatings
- Solvent-based industrial coatings
- Coil coatings, especially TiO₂
- Wood coatings

Because of its anionic character, Efka® FA 4609 AN may have a catalyzing effect on the curing reaction in some baking enamels.

Recommended concentrations

Recommended dosages active on pigment / filler of Efka® FA 4609 AN are:

fillers or extenders	1.5 – 2.5 %
TiO ₂	3.0 – 6.0 %
other inorganic pigments	3.0 – 6.0 %

Efka® FA 4609 AN should always be incorporated into grinding medium before the addition of pigments or fillers.

Storage

Efka® FA 4609 AN should be stored in tightly closed containers and in a cool place. Mix well before use. In case of separation or turbidity heat-up to 30 – 40 °C and stir.

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Validity

This Technical Data Sheet is valid for all versions of the Efka® FA 4609 AN.

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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