

# Efka<sup>®</sup> FA 4663

(old: Texaphor<sup>®</sup> 963)



<b>general</b>	dispersant and grinding aid, anti-settling and anti-floating agent for coatings, paints, printing inks, and other similar surface coatings. Gelling aid for organically modified bentonite.
<b>chemical nature</b>	50% solution of an electroneutral salt of a polycarboxylic acid with amine derivatives dissolved in higher aromatics.

---

## Properties

<b>physical form</b>	clear, brownish liquid						
<b>shelf life</b>	subject to appropriate storage under the usual storage and temperature conditions, our products are durable for at least 2 years.						
<b>typical properties (no supply specification)</b>	<table><tr><td>density at 20 °C (68 °F)</td><td>~ 0.90 g/cm<sup>3</sup></td></tr><tr><td>solid content</td><td>~ 46%</td></tr><tr><td>nitrogen content</td><td>~ 1,41%</td></tr></table>	density at 20 °C (68 °F)	~ 0.90 g/cm <sup>3</sup>	solid content	~ 46%	nitrogen content	~ 1,41%
density at 20 °C (68 °F)	~ 0.90 g/cm <sup>3</sup>						
solid content	~ 46%						
nitrogen content	~ 1,41%						

---

## Application

Efka® FA 4663 is an almost universally applicable additive for non-aqueous coatings. It has proved its value in particular in systems based on alkyd resins, alkyd/melamine resins, acrylic and epoxy resins, chlorinated rubber, linseed oil/stand oil, etc. If some linear binders which contain hydroxyl groups (e.g. Desmophen® types from Bayer) are used with our product, thixotropy can occur.

Efka® FA 4663 was tested with good results in systems containing the following pigments or fillers:

- |                     |                        |
|---------------------|------------------------|
| • titanium dioxide  | • toluidine red        |
| • zinc white        | • hansa yellow         |
| • lithopone         | • phthalocyanine green |
| • red iron oxide    | • phthalocyanine blue  |
| • yellow iron oxide | • carbon black         |
| • black iron oxide  | • blanc fixe           |
| • natural ochre     | • heavy spar           |
| • zinc yellow       | • dolomite             |
| • iron blue         | • talc                 |
| • manganese violet  | • asbestinered         |
| • lead              | • china clay           |
| • zinc dust         |                        |

Efka® FA 4663 is an excellent gelling aid for organically modified bentonite. It offers the following advantages over the use of polar solvents such as methanol:

- a pumpable gel consistency can be obtained
- easy incorporation in the coating system
- increased storage stability of the gels
- incorporation of the dispersed paste is possible after milling
- dispersion is easier to achieve,
- synergistic effect in sedimentation and floating

## recommended concentrations

0.1 - 2.0% of the total pigment/filler. The exact amount to be used must be determined by appropriate tests. Efka® FA 4663 is usually incorporated during pigment grinding, especially when floating effects have to be avoided. Addition later in the process is possible, however, if care is taken to ensure good dispersion.

### 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.

® = registered trademark, ™ = trademark of BASF Group, unless otherwise noted

BASF SE  
 Formulation Additives  
 67056 Ludwigshafen, Germany  
[www.dispersions-pigments.basf.com](http://www.dispersions-pigments.basf.com)  
[formulation-additives-europe@basf.com](mailto:formulation-additives-europe@basf.com)  
[formulation-additives-asia@basf.com](mailto:formulation-additives-asia@basf.com)  
[formulation-additives-nafta@basf.com](mailto:formulation-additives-nafta@basf.com)  
[formulation-additives-south-america@basf.com](mailto:formulation-additives-south-america@basf.com)