

# Efka<sup>®</sup> MI 6180

**Product description**      Highly effective activator to wet and stabilize Attagel<sup>®</sup> products in solvent-based formulations

Efka<sup>®</sup> MI 6180 allows to use Attagel<sup>®</sup> inorganic rheology modifiers in solvent based paints and coatings. It effectively wets and stabilizes Attagel<sup>®</sup> clays in a wide range of solvent based systems. This results in:

**Key benefits**

- Highly efficient viscosity build
- Thixotropic flow behaviour
- Prevention of sedimentation of pigments and fillers
- Improved anti-sagging properties
- Improved flocculation stability
- Easy handling and application
- Lower total formulation cost

**Chemical nature**              Blend of cationic agents and propylene glycol

## Properties

**Physical form**                  Yellow liquid

<b>Technical data</b> (no supply specification)	Solid content (1 h, 120 °C)	~ 77 %
	Acid value	~ 12 mg KOH/g
	pH	~ 3
	Density (20 °C)	~ 1.0 g/cm <sup>3</sup>

## Application

Efka® MI 6180 effectively wets and stabilizes Attagel® clays in a wide range of solvent based systems. In combination with Attagel® inorganic rheology modifiers, they work as excellent thixotropes in solvent-borne systems and pigment pastes.

The combination of Efka® MI 6180 with Attagel® products reduces sagging on vertical surfaces and minimizes settling of pigments and fillers.

Efka® MI 6180 and Attagel® significantly improve the stability of solvent-borne coating systems and pigment pastes. Use of Efka® MI 6180 has usually no negative influence on the gloss or opacity.

**Formulation guideline** 0.5 – 3 % based on total formulation

Efka® MI 6180 should be incorporated into the paint or the mill-base after addition of the Attagel® product. Both, Efka® MI 6180 and Attagel® have to be incorporated using sufficient shear force and vigorous stirring.

- **Low thickening effect** (e.g.: for a high filled and high viscose systems):  
1.5 % Attagel® 50/40/30 + 1.2 % Efka® MI 6180
- **Medium thickening effect** (e.g.: for a standard/medium filled/pigmented systems):  
3 % Attagel® 50/40/30 + 2.2 % Efka® MI 6180
- **High thickening effect** (e.g.: for a low filled/pigmented systems):  
5 % Attagel® 50/40/30 + 2.2 % Efka® MI 6180

We recommend to determine the ratio of Attagel® clay to Efka® MI 6180 by laboratory trials to achieve optimum performance. The type of resins and solvents can affect the viscosity development. Shear forces during incorporation can affect the final viscosity.

## Storage

Efka® MI 6180 should be stored in a cool and dry place.

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### Validity

This Technical Data Sheet is valid for all versions of the Efka® MI 6180.

### 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.