

Efka[®] PU 4463

Product description

Efka[®] PU 4463 is the tin-free and aromatic solvent-free version of Efka[®] PU 4063.

Efka[®] PU 4463 is a polymeric wetting and dispersing agent for deflocculation of inorganic and organic pigments to prepare high-quality solvent-based paint formulations. It works especially well in combination with grinding resins, such as Laropal[®] A 81. This results in:

- reduced dispersing time
- improved gloss
- prevention of flooding and floating
- higher color strength

Chemical nature

Modified polyurethane

Properties

Physical form

Clear yellow liquid

Technical data

(not supply specification)

Density	BASF method (20 °C)	1.01 – 1.04 g/cm ³
Solid content	BASF method (1h at 120 °C)	43.0 – 47.0 %

Application

Efka® PU 4463 is a dispersing agent for organic and inorganic pigments in high-quality solvent based pigment pastes. It reduces dispersing time and mill base viscosity and therefore allows the formulation of highly concentrated pigment pastes.

During the letdown stage Efka® PU 4463 prevents flooding and floating of pigments and promotes gloss development and high color strength. Efka® PU 4463 is readily compatible with a wide range of solvent based binder types, such as used in 2KPU, epoxy, unsaturated polyester, stoving and air-drying formulations.

Recommended concentrations

Calculation method for the required amount of Efka® PU 4463 (as supplied) based on pigment:

inorganic pigments	15 - 20 % of weight
titanium dioxide	4 - 5 % of weight
organic pigments	30 – 60 % of weight
carbon blacks	80 - 100 % of weight

Efka® PU 4463 should be incorporated in the mill base before addition of the pigments. It is recommended to determine the optimal amount to be added to a given system by ladder studies.

Storage

Efka® PU 4463 should be stored in a cool and dry place.

Contacts worldwide

Asia BASF East Asia Regional Headquarters Limited 36/F, Two Taikoo Place, Taikoo Place, 979 King's Road, Quarry Bay, Hong Kong formulation-additives-asia@basf.com	North America BASF Corporation 11501 Steele Creek Road Charlotte, NC 28273 USA formulation-additives-nafta@basf.com
Europe BASF SE Formulation Additives 67056 Ludwigshafen Germany formulation-additives-europe@basf.com	South America BASF S.A Rochaverá - Crystal Tower Av. das Nações Unidas, 14.171 Morumbi - São Paulo-SP Brazil formulation-additives-south-america@basf.com

Validity

This Technical Data Sheet is valid for all versions of the Efka® PU 4463.

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.