Technical Information

Efka® PU 4020

(old : Efka® 4020)

BASF
The Chemical Company

general

high-molecular-weight dispersing agent

Efka® PU 4020 is a polymeric dispersant for stabilizing inorganic pigments including carbon blacks. It also has an excellent performance in many organic pigments. This results in:

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

Due to its particularly good combination of price and performance, Efka® PU 4020 is a very attractive substitute for conventional wetting and dispersing agents.

It is possible to mix combinations of inorganic pigments stabilized with Efka® PU 4020 and organic pigments stabilized with other Efka® high-molecular-weight polymeric dispersants.

chemical nature

modified polyurethane

Properties

physical form

clear, slightly yellowish liquid

shelf life

Efka® PU 4020 may partially solidify when stored below 10 °C (50 °F). Heat to 35–40 °C (95–104 °F) to reliquify. When kept in original unopened containers, it can be stored for up to 4 years from the date of manufacture.

typical properties (no supply specification)

solvent	methoxypropyl acetate
density at 20 °C (68 °F)	~ 1.04 g/cm^3
active ingredients	~ 65 %
flash point	42 °C (108°F)
amine value	~ 9 mg KOH/g
color	≤ 5

Application

Efka® PU 4020 was developed as a general dispersing agent for all low-aromatic or aromatic-free solvent-based paints from high-performance industrial coatings to normal decorative paints. It gives excellent performance in epoxy systems as well and can also be used in universal solvent-based pigment concentrates.

recommended concentrations

titanium dioxide	2–4 % as supplied
inorganic pigments	5–10 % as supplied
organic pigments	20–40 % as supplied
carbon blacks	30–60 % as supplied

Efka® PU 4020 should be incorporated in the mill base before adding the pigments.

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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