

Efka® PU 4047

general

high-molecular-weight dispersing agent

Efka[®] PU 4047 is a polymeric dispersant for stabilizing inorganic and organic pigments. This results in:

- improved gloss and DOI
- reduced flooding
- · higher color strength
- lower viscosity

The higher molecular weight of Efka® PU 4047 compared to Efka® PU 4046 gives stronger deflocculation results with some organic pigments and carbon blacks. In spite of its higher molecular weight, Efka® PU 4047 has a wide compatibility with all kinds of resins. Pigment concentrates based on Efka® PU 4047 show lower viscosity than concentrates made with any other Efka® polymeric dispersants and can even be used in pure let downs based on white spirit.

chemical nature

modified polyurethane

Properties

physical form

clear, slightly yellowish liquid

storage

Efka[®] PU 4047 may partially solidify when stored below 10 °C (50 °F). Heat to 35–40 °C (95–104 °F) to reliquify.

typical properties (no supply specification)

solvent	n-butyl acetate / methoxypropyl acetate / 2-butanol
density at 20 °C (68 °F)	~ 0.98 g/cm ³
active ingredients	~ 35 %
flash point	24 °C (75°F)
color	≤ 4

Application

Efka[®] PU 4047 is used in high-quality industrial coatings such as automotive topcoats (OEM and refinish), coil coatings and 2-pack polyurethane coating systems as well as pigment concentrates (see our concept for resin-containing pigment concentrates [RCPC] based on Efka[®] polymeric dispersants).

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recommended concentrations

Calculation method for the required amount of active ingredient on pigment:

inorganic pigments	10 % of oil absorption value
organic pigments	25-50 % of BET value
carbon blacks	20 % of DBP absorption value

Efka® PU 4047 should be incorporated in the mill base before adding the pigments.

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Validity
This Technical Data Sheet is valid for all versions of the Efka® PU 4047.

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.

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