

# Efka® PU 4010/4020

(Old: Efka® 4010 / 4020)



We create chemistry

## High molecular weight, polyurethane dispersing agents for organic and inorganic pigments

Efka® PU 4010 and Efka® PU 4020 are suitable for all solvent-based paints from high-performance industrial coatings (2k epoxy, 2k PUR, short oil alkyd) to long oil alkyd based decorative paints. They can also be used in universal solvent-based pigment concentrates.

It is possible to mix organic pigment dispersions stabilized with Efka PU 4010 / PU 4020 and pigment dispersions stabilized with other Efka polymeric dispersants due to high inter-compatibility.

Efka® PU 4010 / Efka® PU 4020 are very attractive substitutes for conventional wetting and dispersing agents as they are particularly good combinations of price and performance.

### Positioning Efka® PU 4010 and Efka® PU 4020

**Efka® PU 4009 – 1st generation PUR HMWD**  
60% active in MPA/ButAc/2-butanol

Workhorse, economic tinting systems with Laropal A81

HMWD PUR with flexible anhorng groups: "more efficient"

**Efka® PU 4010 – 2nd generation PUR HMWD**  
50% active in MPA/ButAc/ Shellsol A

Aromatic / Butac free version of Efka® PU 4010.  
Same Polymer with increased active ingredients:  
Targeted for epoxy flooring and SB decorative paints

**Efka® PU 4020 – 2nd generation PUR HMWD**  
65% active in MPA

### Guide formulations: Tinting pastes for epoxy flooring based on Efka® PU 4020

|                   |                      |       |       |       |       |
|-------------------|----------------------|-------|-------|-------|-------|
| Epoxy resin       |                      | 50.0  | 50.0  | 50.0  | 50.0  |
| Dispering agent   | Efka® PU 4020        | 5.0   | 8.0   | 10.0  | 2.0   |
| Synergist         | Efka® MI 6745        |       | 1.0   |       |       |
| Hydrocarbon resin |                      |       | 16.0  |       |       |
| Filler            | Blanc Fix Micro      |       | 5.0   | 20.0  |       |
| Pigment           | Bayferrox 3920       | 45.0  |       |       |       |
| Pigment           | Heliogen Blue L 7087 |       | 20.0  |       |       |
| Pigment           | Special black 4      |       |       | 20.0  |       |
| Pigment           | Kronos 2310          |       |       |       | 48.0  |
|                   |                      | 100.0 | 100.0 | 100.0 | 100.0 |

### Efka® PU 4010 / PU 4020 : Characteristic Values

| Property                | Value  |
|-------------------------|--|
| Appearance              | clear, slightly yellowish liquid   |
| Active ingredients      | ~ 50% / 65%  |
| Amine value             | ~ 6 mg KOH/g / ~ 9 mg KOH/g  |
| Solvent                 | butyl acetate/methoxypropyl acetate/<br>alkylbenzene/methoxypropyl acetate |
| Density at 20°C (68 °F) | ~ 0.98 g/cm <sup>3</sup>   |
| Flash point             | 24°C (75°F)  |
| Color, Gardner          | ≤ 6  |

### Performance Highlights

- Reduced grinding time
- Improved gloss
- Prevention of flooding and floating problems
- Higher color strength



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