Efka® PX 4701/4731/4732/4733
(Old: Efka® 7701/7731/7732)

High-molecular-weight dispersing agents for high-performance inkjet inks and UV-flexographic and litho ink applications

Efka® PX 4701/4731/4732/4733 grades are highly efficient dispersing agents for organic pigments. Efka® PX 4701 is especially suitable for carbon blacks. All four products are 100% active dispersing agents of the acrylic block copolymer family made by Controlled Free Radical Polymerization (CFRP). They are recommended for high-performance systems such as inkjet inks and UV-curable flexographic as well as litho inks. Efka® PX 4701 is well suited for use with the concept of resin-free pigment concentrates (RFPC) in UV-curable and solvent-based systems. Whilst Efka® PX 4701 is a general purpose dispersant, Efka® PX 4731/4733 is suitable for mild solvent ink jet systems and Efka® PX 4732 more for strong solvent systems. However Efka® PX 4731/4733 is also well suitable for UV-Flexo and Offset inks and epoxy coating systems.

**Performance Highlights**
- Strong viscosity suppression
- Excellent storage stability
- Broad compatibility towards different ink systems and pigments
- Improves color strength of organic pigments
- Excellent in stabilizing organic pigments in low viscosity systems

**Storage stability (PY 109 : 28 days at 50°C)**

![Graph showing viscosity change with additive use level for Efka® PX 4701 vs Competitor A]

*“a.m. means active matter*

**Strong viscosity suppression (Dispersion Performance - Millbase Viscosity with PY 109)**

![Graph showing viscosity values for Efka® PX 4701 vs Competitor A]

**Characteristic Values:**

<table>
<thead>
<tr>
<th>Property</th>
<th>Efka® PX 4701 Value</th>
<th>Efka® PX 4731/4732 Value</th>
<th>Efka® PX 4733 Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>amber to brownish liquid</td>
<td>amber high viscous liquid</td>
<td>amber high viscous liquid</td>
</tr>
<tr>
<td>Active ingredients</td>
<td>~ 100%</td>
<td>~ 100%</td>
<td>~ 100%</td>
</tr>
<tr>
<td>Amine value</td>
<td>~ 40mg KOH/g</td>
<td>~ 25mg KOH/g</td>
<td>~ 25mg KOH/g</td>
</tr>
</tbody>
</table>
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