**POLCOB®5**
Polymere-bounded Cobalt
5% Co-concentration in Ethyl-2-hydroxy propionate

**Description**

Purple coloured liquid with medium viscosity of dispersed polymerbounded Cobalt in environment-friendly organic ester.

This accelerator can preferably be used in curing of unsaturated polyester resins combined with various types of organic peroxides.

POLCOB®5 has a very low hazardous classification and can be used in similar or equal amounts (%w/w Co) to replace hazardous Cobalt-Octoate solutions.

**Technical Data**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Purple, clear liquid</td>
</tr>
<tr>
<td>Co-content</td>
<td>approx. 5% w/w</td>
</tr>
<tr>
<td>Solvent</td>
<td>Ethyl-2-hydroxypropionate</td>
</tr>
<tr>
<td>Density</td>
<td>1.05 g/ml</td>
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<tr>
<td>Viscosity</td>
<td>&lt; 400 cP</td>
</tr>
<tr>
<td>Flash point</td>
<td>approx. 44°C</td>
</tr>
<tr>
<td>Recommended storage temperature</td>
<td>below 30°C</td>
</tr>
<tr>
<td>Storage stability as from date of delivery</td>
<td>6 months</td>
</tr>
</tbody>
</table>
Application

Thermoset:

In various applications Ketoneperoxides and Peresters are used to cure different types of polyester resins (Epoxyvinylester-, Orthophtalic-, DCPD-, Isophtalic-NPG-, ... ) and can only be activated by using accelerators based on Cobalt or Cobalt/Amine compounds.

Industrial applicators are considering to move to recipe components with lowest possible hazardous classes and migration properties for health and environment reasons.

POLCOB®5 has a high compatibility and can be easy mixed into resins in any relevant amounts (0.05% - 0.5%) before adding the peroxide.

POLCOB®5 is generally suitable for all known applications such as:
Coldcuring with MEKP, AAP, MIKP in Filament Winding, Casting, Infusion, Continuous Laminating, RTM etc...
Elevated and hot temperature curing with Peresters (TBPB, TBPIN..) in artificial marble / engineered stone processes etc...

Dosing level of POLCOB®5 may be applied at a slightly higher level under consideration of the relevant Co-content of Cobaltoctoate-solutions.

Gel-time and peak-time as well as max. peak temperature will depend from dosage as known from standard Co-octoate accelerators.

Standard Packaging

25kg drums

Disclaimer

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Revision number: 1.0. Date: 12.04.2019. Device M: TDS.