CUROX® TC 510 X
Tert. Butyl catechol
CAS# 98-29-3
10 % Solution in plasticiser

Structural Formula

Description
Mobile liquid, consisting of approx. 10% 4-tert.butyl (pyro) catechol, diluted in a plasticiser. This product is an efficient anti-oxidant for many organic materials and is also used as an inhibitor in curing unsaturated resins.

Technical Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Mobile liquid</td>
</tr>
<tr>
<td>Content of t-butyl catechol</td>
<td>Approx. 10 %</td>
</tr>
<tr>
<td>Desensitising agent</td>
<td>Aliphatic ester</td>
</tr>
<tr>
<td>Density at 20°C</td>
<td>Approx. 0.96 g/cm³</td>
</tr>
<tr>
<td>Flash point (SETA)</td>
<td>Approx. 30°C</td>
</tr>
<tr>
<td>Miscibility</td>
<td>Miscible with UP resin, styrene etc., immiscible with water</td>
</tr>
<tr>
<td>Cold storage stability</td>
<td>Liquid to below 10°C</td>
</tr>
<tr>
<td>Recommended storage temperature</td>
<td>10-30°C</td>
</tr>
<tr>
<td>Storage stability as from date of delivery</td>
<td>6 months</td>
</tr>
</tbody>
</table>

Application
The product inhibits peroxide-containing UP resin formulations with or without accelerator. Very effective when used with ketone peroxide/cobalt systems, higher levels may be required with benzoyl peroxide/amine combinations or with ketone peroxides alone. Gelation begins after the inhibitor has been completely consumed. The curing speed is hardly impaired, the resulting degree of cure not at all. Usage level: 0.05 - 0.5% as supplied together with 1-3% ketone peroxide and 0.5-2% ACCELERATOR COB 1 TX/COB 1 XS or CA-12 X. Suitable in particular for prolongation of pot life - i.e. minutes or hours at ambient temperature. 5-20 fold pot life (geltime of resin + peroxide + accelerator) is possible or 23 fold shelf life (geltime of resin + peroxide), depending on type of resin and peroxide.
In addition, the "mould release factor" can be essentially improved - i.e. the ratio of mould release time and geltime (IMR = tMR / tgel).
Standard Packaging

Standard Packaging for the CUROX® TC 510 X is 25 Kg.

Disclaimer

This information and all further technical advice are reflecting our present knowledge and experience based on internal tests with local raw materials with the purpose to inform about our products and applications. The information should not be construed as guaranteeing specific properties of products described or their suitability for a particular application, nor as providing complete instructions for use. The information implies no guarantee for product and shelf life properties, nor any liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. We reserve the right to make any changes according to technological progress or further developments.

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Revision number: 1.0. Date: 28.01.2019. Device M: TDS.