Discover more performance with new crosslinker chemistry

Larotact® 150 for high-class coatings
Larotact 150 at a glance

Larotact 150 (TACT = Trisalkoxycarbamatotriazin) is a low molecular mass crosslinker for baking finishes that combines melamine and urethane chemistry. It compensates performance losses due to the reduction of amino formaldehyde resin. As a result, it supports coatings formulators to produce label-free coatings.

**Appearance**
- No color to slightly yellow
- Clear to slightly turbid

**Supply specification**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non volatile matter, DIN EN ISO 3251, 2 h, 105 °C</td>
<td>48-52 % in n-Butanol</td>
</tr>
<tr>
<td>Viscosity at 23 °C, DIN EN ISO 3219, annex A, shear rate D 25 s⁻¹</td>
<td>10-50 mPa*s</td>
</tr>
<tr>
<td>pH value</td>
<td>3-6</td>
</tr>
<tr>
<td>Platin-cobald (Hazen) color number</td>
<td>&lt; 50</td>
</tr>
</tbody>
</table>

**Compatibility**
- Soluble in alcohols, esters, aromatic hydrocarbons and glycol ethers, it is not miscible with water
- Compatible with a wide variety of alkyd resins, polyesters, acrylic resins and epoxy resins

**Usage**
- Chemical activity is temperature triggered (~ 110 °C)
- Mainly used in solvent-based 1K stoving clear coats in combination with melamine resins
- Can serve as stand-alone crosslinker or in 2K PU stoving coatings
- Today automotive OEM; potentially coil coating and industrial stoving coatings

R1=Methyl, Butyl

R1

R1
Laratct 150 in 1K stoving enamel
High performance, high gloss

- Increases surface hardness
- Excellent hardness/elasticity behavior
- Increases network density for improved chemical resistances
- High weather resistance
- High gloss and good leveling of coating surface appearance
- No discoloring at all
- Non reactive at storage conditions
## Usage and specific performance highlights

<table>
<thead>
<tr>
<th>1K Amino resin</th>
<th>1K stand-alone</th>
<th>2K Polyurethane</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combined with melamine resins</td>
<td>Stoichiometric use of Larotact to OH-Polyol possible</td>
<td>5-10 % in Component A</td>
</tr>
<tr>
<td>Typical ratio of Larotact: 1-15 % Larotact on coating total</td>
<td>NCO equivalents: 16 % (32 % of TACT pure)</td>
<td>BuOH could react with NCO hardener</td>
</tr>
<tr>
<td></td>
<td>Definite crosslink mechanism</td>
<td></td>
</tr>
</tbody>
</table>

- Improved performances
- Higher hardness
- Higher reactivity
- Better chemical resistances
- Easy mixable
- High hardness
- High reactivity
- No formaldehyde content
- Increased hardness with no loss on viscosity
- Improved appearance
- Better weather resistance

- Use only in temperature cured application systems to activate Larotact as crosslinker
- Best use in OH-functional binder systems
- Best use in solvent-based coatings
Improved hardness and resistance of clearcoat formulated with TACT

Clearcoat based on Joncryl 902 7:3 Luwipal 018 and 10 % Larotact 150 on binder total (solids/solids)

- Reference
- Reference + TACT

**Surface hardness**

- Amtec Kistler
- Scratch resistance
- Sulfuric acid resistance
- Tree resin resistance
- Pankreatin resistance
- NaOH resistance

**Outside**

1 Very good – 2 Good – 3 OK – 4 Limit – 5 Not OK – 6 Bad

**Inside**
Order your samples now

Sampling
Article number: 54564970
Sample size: 1 kg

Sales starting
September 1, 2015
Delivery quantity: 190 kg
Packaging: metal drum

Larotact 150 is globally available
150 years

BASF
We create chemistry