INFRALIT
Low Temperature Curing Powder Coatings

Paint with Pride
Low temperature curing powder coatings cure at significantly lower temperatures than normal powder coatings, providing clear energy savings. On the other hand, the production rate when using normal oven temperatures can be enhanced, due to significantly shorter throughput times. Line speed can be increased without adjusting the oven parameters. Low temperature curing powder coatings are not more sensitive to over-curing than standard powder coatings. Therefore, they are suitable for all types of paint shops that use powder coatings.

INFRALIT Low Temperature Curing Powder Coatings

New INFRALIT low temperature curing powder coatings combines excellent weather resistance with a low curing temperature. Low temperature curing powder coatings help to save energy and boost production.

The new ultra fast low temperature curing INFRALIT PUR 8476 powder coating is suitable for steel and aluminum structures, both indoors and out. INFRALIT PUR 8476 forms a mechanically and chemically resistant smooth paint film with excellent UV-resistance. The paint film will not turn yellow and is extremely weather resistant.

Benefits are evident when painting massive steel components. The benefits of using ultra low temperature curing powder are emphasized when painting heavy steel components, such as massive steel beams, agricultural machinery, tractors, mining machinery and truck bodies, because the powder coating cures at significantly lower component temperatures.

Heat-sensitive, non-conductive substrates

One of the basic principles of powder coating is that the component being painted must be conductive and resistant to high curing temperatures. For these reasons, use of powder coating on heat sensitive and non-conductive substrates can be very challenging. Low temperature curing powders enable the use of powder coating on heat sensitive substrates, such as MDF sheets, plywood, plastic and composite materials. To enable the use of powder coating, non-conductive components need to be pre-treated in a specific way. Pre-treatment methods vary, depending on the substrate.

Storage, transportation and handling

Because low temperature curing powder coatings are more reactive than standard powder coatings, it is vital that the product does not exceed its recommended storage temperature at any stage of transportation, storage or handling. Teknos’ powder coatings sales team will be happy to provide more information on low temperature curing powder coatings and their use.

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INFRALIT Low Temperature Curing Powder Coatings

<table>
<thead>
<tr>
<th>Serie</th>
<th>Binder</th>
<th>Energy-saving curing time / substrate temperature</th>
<th>Time-saving curing time / substrate temperature</th>
<th>Finish</th>
<th>Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Heat sensitive substrates</td>
<td>Heat sensitive substrates</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PUR 8471</td>
<td>Polyurethane</td>
<td>30 min / 130 °C</td>
<td>7 min / 160 °C</td>
<td>Texture</td>
<td>Facade</td>
</tr>
<tr>
<td>PUR 8475</td>
<td>Polyurethane</td>
<td>30 min / 130 °C</td>
<td>7 min / 160 °C</td>
<td>Glossy</td>
<td>Facade</td>
</tr>
<tr>
<td>PUR 8476</td>
<td>Polyurethane</td>
<td>30 min / 130 °C</td>
<td>7 min / 160 °C</td>
<td>Semigloss</td>
<td>Facade</td>
</tr>
<tr>
<td>PE 8601</td>
<td>Polyester</td>
<td>15 min / 130 °C</td>
<td>5 min / 160 °C</td>
<td>Texture</td>
<td>Industrial</td>
</tr>
<tr>
<td>PE 8605</td>
<td>Polyester</td>
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<td>5 min / 160 °C</td>
<td>Glossy</td>
<td>Industrial</td>
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<tr>
<td>PE 8906</td>
<td>Polyester</td>
<td>–</td>
<td>5 min / 160 °C</td>
<td>Semigloss</td>
<td>Industrial</td>
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INFRALIT Low Temperature Curing Powder Coatings for Outdoor Use

<table>
<thead>
<tr>
<th>Serie</th>
<th>Binder</th>
<th>Energy-saving curing time / substrate temperature</th>
<th>Time-saving curing time / substrate temperature</th>
<th>Finish</th>
<th>Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Heat sensitive substrates</td>
<td>Heat sensitive substrates</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PE 8640</td>
<td>Polyester</td>
<td>10 min / 160 °C</td>
<td>6 min / 180 °C</td>
<td>Glossy, semigloss</td>
<td>Industrial</td>
</tr>
<tr>
<td>PE 8641</td>
<td>Polyester</td>
<td>10 min / 160 °C</td>
<td>6 min / 180 °C</td>
<td>Texture</td>
<td>Industrial</td>
</tr>
<tr>
<td>PE 8641</td>
<td>Polyester</td>
<td>10 min / 160 °C</td>
<td>6 min / 180 °C</td>
<td>Hammer finish</td>
<td>Industrial</td>
</tr>
<tr>
<td>PE 8643</td>
<td>Polyester</td>
<td>15 min / 160 °C</td>
<td>5 min / 180 °C</td>
<td>Matte</td>
<td>Industrial</td>
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<tr>
<td>PE 8625</td>
<td>Polyester</td>
<td>15 min / 160 °C</td>
<td>9 min / 180 °C</td>
<td>Semigloss</td>
<td>Facade</td>
</tr>
<tr>
<td>PE 8721</td>
<td>Polyester</td>
<td>15 min / 160 °C</td>
<td>8 min / 180 °C</td>
<td>Texture</td>
<td>Super Durable</td>
</tr>
<tr>
<td>PE 8725</td>
<td>Polyester</td>
<td>15 min / 160 °C</td>
<td>8 min / 180 °C</td>
<td>Glossy</td>
<td>Super Durable</td>
</tr>
<tr>
<td>PE 8726</td>
<td>Polyester</td>
<td>15 min / 160 °C</td>
<td>8 min / 180 °C</td>
<td>Semigloss</td>
<td>Super Durable</td>
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INFRALIT Low Temperature Curing Powder Coatings for Indoor Use

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<thead>
<tr>
<th>Serie</th>
<th>Binder</th>
<th>Energy-saving curing time / substrate temperature</th>
<th>Time-saving curing time / substrate temperature</th>
<th>Finish</th>
<th>Quality</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Heat sensitive substrates</td>
<td>Heat sensitive substrates</td>
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</tr>
<tr>
<td>EP/PE 8241</td>
<td>Epoxy Polyester</td>
<td>10 min / 145 °C</td>
<td>5 min / 165 °C</td>
<td>Texture</td>
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<tr>
<td>EP/PE 8242</td>
<td>Epoxy Polyester</td>
<td>10 min / 145 °C</td>
<td>5 min / 165 °C</td>
<td>Hammer finish</td>
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<tr>
<td>EP/PE 8245</td>
<td>Epoxy Polyester</td>
<td>10 min / 145 °C</td>
<td>5 min / 165 °C</td>
<td>Glossy</td>
<td></td>
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<tr>
<td>EP/PE 8246</td>
<td>Epoxy Polyester</td>
<td>10 min / 145 °C</td>
<td>5 min / 165 °C</td>
<td>Semigloss</td>
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</tr>
<tr>
<td>EP 8024</td>
<td>Epoxy</td>
<td>15 min / 130 °C</td>
<td>5 min / 160 °C</td>
<td>Glossy</td>
<td></td>
</tr>
</tbody>
</table>
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The Teknos Group

Teknos is one of Europe’s leading suppliers of industrial coatings with a strong position in retail and architectural coatings, too.

Teknos has its own production in seven countries: Finland, Sweden, Denmark, Germany, Poland, Russia and China. In addition, Teknos has sales companies in 15 countries and exports to over 20 countries via a well-established network of dealers.

Teknos was established in 1948 and is one of Finland’s largest family-owned businesses.

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