The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. The agreed contractual quality of the product results exclusively from the statements made in the product specification. It is the responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed. When handling these products, advice and information given in the safety data sheet must be complied with. Further, protection and workplace hygiene measures adequate for handling chemicals must be observed.

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Resins and additives for the coatings industry

Product selection guide

www.basf.com/resins

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EDC 0515e
Resins and additives for the coatings industry

We create chemistry

Reducing emissions
Laromer® UP 9096, our UV-curable resin for high-gloss wooden surfaces, is one example of a large number of alternatives to solvent-based products. Other examples are the water-soluble light stabilizer Tinuvin® DW range; highly efficient, low VOC dispersing agents like Disper® Ultra PX 4575/4585; or Basonat® crosslinkers for water-based and high solid 2K PU coatings.

Extending coatings’ life spans
Tinuvin® 249 is our new non-basic hindered amine light stabilizer (HALS) for robust coatings. Its improved compatibility with polar systems and its low viscosity and color number allow for a wide spectrum of applications and simplify handling in production. Our Tinuvin® 5333 DW light stabilizer for joinery and decorative coatings prevents cracks and haze formation of water-based coatings during weathering. Slip and leveling agents like Elfka® SL 3299 improve mar resistance, while resins like Basonol® HPE improve hardness and chemical resistance.

For industrial coatings, but also for applications in automotive and furniture and floor coatings, we identified efficiency, durability, and the reduction of emissions to be among the key drivers for more sustainable formulations. Products that contribute substantially to these drivers along the value chain have been classified as Sustainability Accelerators.

This detailed portfolio analysis and externally assured method to classify our products according to their contribution to sustainability allow us to offer you the solutions you need. Let’s take a joint look at your specific requirements and find out how we can further improve both your, as well as our, sustainability profile!

Learn more about BASF’s commitment to driving sustainable solutions at: www.basf.com/sustainability

Smart raw materials – more sustainable formulations
In addition to a broad range of high-performance colorants, BASF offers an extensive range of binders, crosslinkers, performance, and formulation additives. These do not only add value to the performance of your specific coating’s formulation. They have furthermore been systematically reviewed and evaluated with our Sustainable Solution Steering method, which allows us to assess the sustainability performance of each of our products in its specific application. We create chemistry that makes performance love sustainable solutions.

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Our comprehensive portfolio

<table>
<thead>
<tr>
<th>Product class</th>
<th>Product</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acrylic resins, solvent-based</td>
<td>AcrynoL® F</td>
<td>Lightfast and aging resistant resins for plasticizing cellulose nitrate and chlorinated rubber for the production of films with a high degree of flexibility and excellent adhesion strength; flow promoters for solvent-based and powder coatings</td>
</tr>
<tr>
<td>SH-functional</td>
<td>Joncryl®</td>
<td>Acrylic resins to be crosslinked with melamine resins or polyisocyanates for solvent-based coatings; the portfolio comprises a Tg range of –43 °C to 80 °C</td>
</tr>
<tr>
<td>Hyperbranched polyesterols</td>
<td>Lignowax® HPE</td>
<td>For use as co-binder in solvent-based 1 K and 2 K PU coatings; improves drying properties at extended pot life, improved final hardness and chemical resistance; excellent weathering stability; low impact on VOC, especially in high solid coatings</td>
</tr>
<tr>
<td>Natural oil-based polyols</td>
<td>Sovermo®</td>
<td>Solvent-free polyols for 2K PU coating application, showing excellent hydrophobic properties, hydrolysis stability, chemical resistance and UV/weathering stability; combination with solvent-based acrylic binders (Joncryl® Polyol) possible for VOC reduction</td>
</tr>
<tr>
<td>Acrylic dispersions</td>
<td>Acryno® PRO Ligno®</td>
<td>Binders for water-based anticorrosion coatings, binders for water-based coatings for wood, plastics and furniture films and for baking finishes</td>
</tr>
<tr>
<td>Polyisocyanates</td>
<td>Laromin® A</td>
<td>Polyfunctional crosslinkers for epoxy resins curing (100% and solvent-based systems)</td>
</tr>
<tr>
<td>(Co-) Crosslinkers</td>
<td>Basonol® HPE</td>
<td>Hydrophobically modified alkyl/esterifiable emulsions (PAE/ AES), hydrophobically modified ethoxylated urethane (HEUR), (modified) hydroxyl-terminated polyether (HTPE)</td>
</tr>
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<tr>
<td>Polyvinyl ethers</td>
<td>Lutran®</td>
<td>Soft resins to be combined with cellulose nitrate, Laromin® and other binders; use as co-binders in antifouling paints</td>
</tr>
<tr>
<td>Polyamines</td>
<td>Laromin® A</td>
<td>Polyfunctional crosslinkers for epoxy resins curing (100% and solvent-based systems)</td>
</tr>
<tr>
<td>Water-based hardeners and epoxy emulsions</td>
<td>Watersolve®</td>
<td>Water-based epoxy system for 2K primer and topcoat application; visible end of pot life, low shrinkage, rapid re-coatable, and sandable, good pigment wetting and corrosion resistance</td>
</tr>
<tr>
<td>Products for radiation curing</td>
<td>Laromer®</td>
<td>Binders and reactive driers for coatings cured by UV or electron beams</td>
</tr>
<tr>
<td>Light stabilizers</td>
<td>Chimassorb® Light</td>
<td>Light-stabilizing additives for water-based coatings</td>
</tr>
<tr>
<td>UV absorbers</td>
<td>Irgacure®</td>
<td>Light-stabilizing additives for water-based, solvent-based, UV, and powder coatings</td>
</tr>
<tr>
<td>UV absorbers</td>
<td>Irgafos®</td>
<td>Light-stabilizing additives for solvent-based coatings</td>
</tr>
<tr>
<td>Antioxidants</td>
<td>Irganox®</td>
<td>Protect resins from thermally induced degradation during processing, production, and high-temperature application</td>
</tr>
<tr>
<td>Antimicrobials-algaecides</td>
<td>Irgaguard®</td>
<td>Organic and inorganic antimicrobials and algaecides for use in hygienic and decorative as well as marine antifouling coatings</td>
</tr>
<tr>
<td>Dispersing agents</td>
<td>Irgamar®</td>
<td>For use as co-binder in solvent-based 1 K and 2 K PU coatings; improves drying properties at extended pot life, improved final hardness and chemical resistance; excellent weathering stability; low impact on VOC, especially in high solid coatings</td>
</tr>
<tr>
<td>Pigment dispersing agents</td>
<td>Irgamar®</td>
<td>For use as co-binder in solvent-based 1 K and 2 K PU coatings; improves drying properties at extended pot life, improved final hardness and chemical resistance; excellent weathering stability; low impact on VOC, especially in high solid coatings</td>
</tr>
<tr>
<td>Wetting agents and surface modifiers</td>
<td>Efka® Hydrogel®</td>
<td>Remove flow disturbance such as orange peel and other undesirable coating characteristics</td>
</tr>
<tr>
<td>Defoamers</td>
<td>Efka® FoamStar®</td>
<td>Inhibit or reduce the build-up of foam (defoamer) or trapped air (deaerator)</td>
</tr>
<tr>
<td>Rheology modifiers</td>
<td>Efka® Rheosil®</td>
<td>Give the required balance of application properties such as container viscosity, application viscosity, anti-settling properties, quater resistance, as well as flow and leveling properties</td>
</tr>
</tbody>
</table>
### Preferred applications

Given the large number of products in our range, it is difficult to show all the possible application areas in a schematic overview. Please get in touch to learn more about our comprehensive portfolio.