Coatings for Paper-based Packaging
Paper-based packaging protects the filling good and fulfills a transport function. For folded boxes, ACTEGA offers water-based, UV and effect coatings. Specialty coatings that fulfill the high requirements of their industries are also available, e.g. for food or cigarette packaging. Solutions for the application on corrugated board complete our product program.

ACTEGA offers innovative specialties for the paper-based packaging industry.

Our product portfolio is consistently tailored to customer requirements.

Our coating portfolio

<table>
<thead>
<tr>
<th>Matt &amp; Gloss Coatings</th>
<th>AQ</th>
<th>UV</th>
<th>Effect Coatings</th>
<th>AQ</th>
<th>UV</th>
<th>Functional Coatings</th>
<th>AQ</th>
<th>UV</th>
</tr>
</thead>
<tbody>
<tr>
<td>High gloss</td>
<td>✔</td>
<td>✔</td>
<td>Pearlescent</td>
<td>✔</td>
<td>✔</td>
<td>Barrier</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Gloss</td>
<td>✔</td>
<td>✔</td>
<td>Luminescent</td>
<td>✔</td>
<td>✔</td>
<td>Heat-resistant</td>
<td>✔</td>
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<tr>
<td>Semi-matt</td>
<td>✔</td>
<td>✔</td>
<td>Metallic</td>
<td>✔</td>
<td>✔</td>
<td>Blisters</td>
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<td>Matt</td>
<td>✔</td>
<td>✔</td>
<td>Drip Off</td>
<td>✔</td>
<td>✔</td>
<td>Release</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Dull matt</td>
<td>✔</td>
<td>✔</td>
<td>Tactile</td>
<td>✔</td>
<td>✔</td>
<td>Skin</td>
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<td>Neutral</td>
<td>✔</td>
<td>✔</td>
<td>Structure</td>
<td>✔</td>
<td>✔</td>
<td>Anti-slip</td>
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<td></td>
<td></td>
<td></td>
<td>Opaque White</td>
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<td>✔</td>
<td>Anti-sealing</td>
<td>✔</td>
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<td></td>
<td></td>
<td></td>
<td>Anti-curling</td>
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<td></td>
<td>Innerliner</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>Encoding</td>
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</tbody>
</table>

AQ = water-based, UV = UV based, OB = oil-based

Portfolio according to processes

<table>
<thead>
<tr>
<th></th>
<th>Sheet-fed offset</th>
<th>Flexo</th>
<th>Gravure</th>
<th>Screen</th>
<th>Offline</th>
<th>Digital</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>ink duct</td>
<td>proof</td>
<td>post</td>
<td>Off line</td>
<td>UV/LED</td>
</tr>
<tr>
<td>AQ</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>UV</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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</tbody>
</table>

www.actega.com
As multilateral as printed products:
Our coatings meet all of your needs.

干粮、冷冻食品及乳品
- 隔氧性能（牛奶、脂肪、油）
- 高温抗性
- 高湿阻隔性
- 高抗刮花
- 对直接和间接食品接触适用
- 对于内部和外部都适用

食品，干饮料及糖果
- 高温抗性
- 高湿阻隔性
- 高抗刮花
- 对于直接和间接食品接触适用
- 可箔压

饮料（包括烈酒）
- 高阻隔性
- 高湿阻隔性
- 非常高抗刮花
- 非常好的UV粘性
- 高光泽或哑光外观
- 触觉和视觉效果
- 调整滑角（滑角12-18°，哑光22-28°）

家庭用品、电子产品等非食品
- 对碱（洗涤剂）的隔离
- 良好的刮花和划痕抗性
- 快干
- 可箔压
- 光泽
- 适用于热和超声波密封的泡罩包装
- 产品适用于玩具包装

医药
- 高抗刮花
- 调整滑角（滑角17-19°，哑光24-26°）
- 适用于水性喷墨墨水编码
- 适用于胶水分散型粘合剂

个人护理
- 极高阻隔性
- 极高抗刮花
- 可箔压
- 非常快干
- 非常好的UV粘性
- 非常高光泽或哑光外观
- 触觉和视觉效果
- 调整滑角（滑角17-19°，哑光24-26°）

烟草
- 无味和无烟味
- 非常好的刮花和划痕抗性
- 非常快干
- 可箔压
- 光泽
- 调整滑角
- 抗阻隔
- 无氨
- 由主要烟草生产商批准

Health Care
- High scuff resistance
- Adjusted slip angle (slippery 17-19°, dull 24-26°)
- Suitable for encoding with water-based inkjet inks
- Glueable with dispersion adhesives

Personal Care
- Very high block resistance
- Very high scratch and scuff resistance
- Foil stampable
- Very fast drying or reactivity (UV)
- Very good adhesion (UV)
- Very high gloss or dull matt appearance
- Tactile and visual effects

Tobacco
- Odor-neutral and smoke-taste-neutral
- Very good scratch and scuff resistance
- Very fast drying
- Foil stampable
- Good gloss
- Adjusted slip angle
- Anti-sealing against film
- Free of ammonia
- Approved by key tobacco producers

Household, Electronics, Other Non-Food
- Barrier against alkali (detergent)
- Fast drying
- Foil stampable
- Good gloss
- Products for blister packaging available
  (heat and ultrasonic sealing)
- Approved for the use on toy packaging
Discover our selection of innovative brands.

**FoodSafe**
Our leading brand of coatings for food packaging. FoodSafe coatings fulfill applicable food packaging regulations. They are not only low migration, but certified for the direct contact to dry and fatty foodstuffs. Moreover, they comply with the Swiss Ordinance.

**TerraGreen®**
Our brand of coatings based on renewable resources. Other than traditional water-based coatings, based on petroleum derivatives, TerraGreen focuses on resins and waxes from nature. In its resource base, TerraGreen is independent from petrochemicals and the shortage of fossil resources.

Discover your key benefits at ACTEGA.

**Technical Services**
- Fast and direct contact to ACTEGA (on site and remote)
- State-of-the-art testing and evaluation methods
- Successful coating recommendations considering your individual requirements

**Product Safety**
- Regular analysis and certifications of coatings by accredited testing laboratories
- Reference samples of each batch
- Intensive know how with regard to food law, packaging law and chemical law

**Product Quality**
- Extensive quality control of coating batches
  - Regular analysis of raw materials by internal analytics
  - Independently certified hygiene management according to HACCP
  - Certified quality management and environmental management system according to ISO 9001 and 14001 as well as certified energy management system according to ISO 50001

**Product Development**
- Broad and specialized portfolio of coatings and primers
  - High market and customer orientation
  - Extensive research for new raw materials
  - Fully equipped and modern R&D laboratories

Product availability is provided by five companies serving the paper-based packaging industry in their markets.

As a member of ALTANA, ACTEGA develops and produces specialty coatings, inks, adhesives and sealing compounds for eight customer segments. Discover our solutions and refer to ACTEGA’s complete global product portfolio for paper-based packaging:

<table>
<thead>
<tr>
<th>Paper-based Packaging</th>
<th>ACTEGA Foshan (China)</th>
<th>ACTEGA North-America (USA)</th>
<th>ACTEGA Overlade (Brazil)</th>
<th>ACTEGA Premiate (Brazil)</th>
<th>ACTEGA Terra (Germany)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coatings (water-based)</td>
<td>✓</td>
<td>✓</td>
<td>●</td>
<td>●</td>
<td>✓</td>
</tr>
<tr>
<td>Coatings (UV)</td>
<td></td>
<td>●</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inks (water-based)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td></td>
</tr>
<tr>
<td>Inks (UV)</td>
<td></td>
<td>✓</td>
<td>●</td>
<td>●</td>
<td></td>
</tr>
<tr>
<td>Inks (oil-based)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>