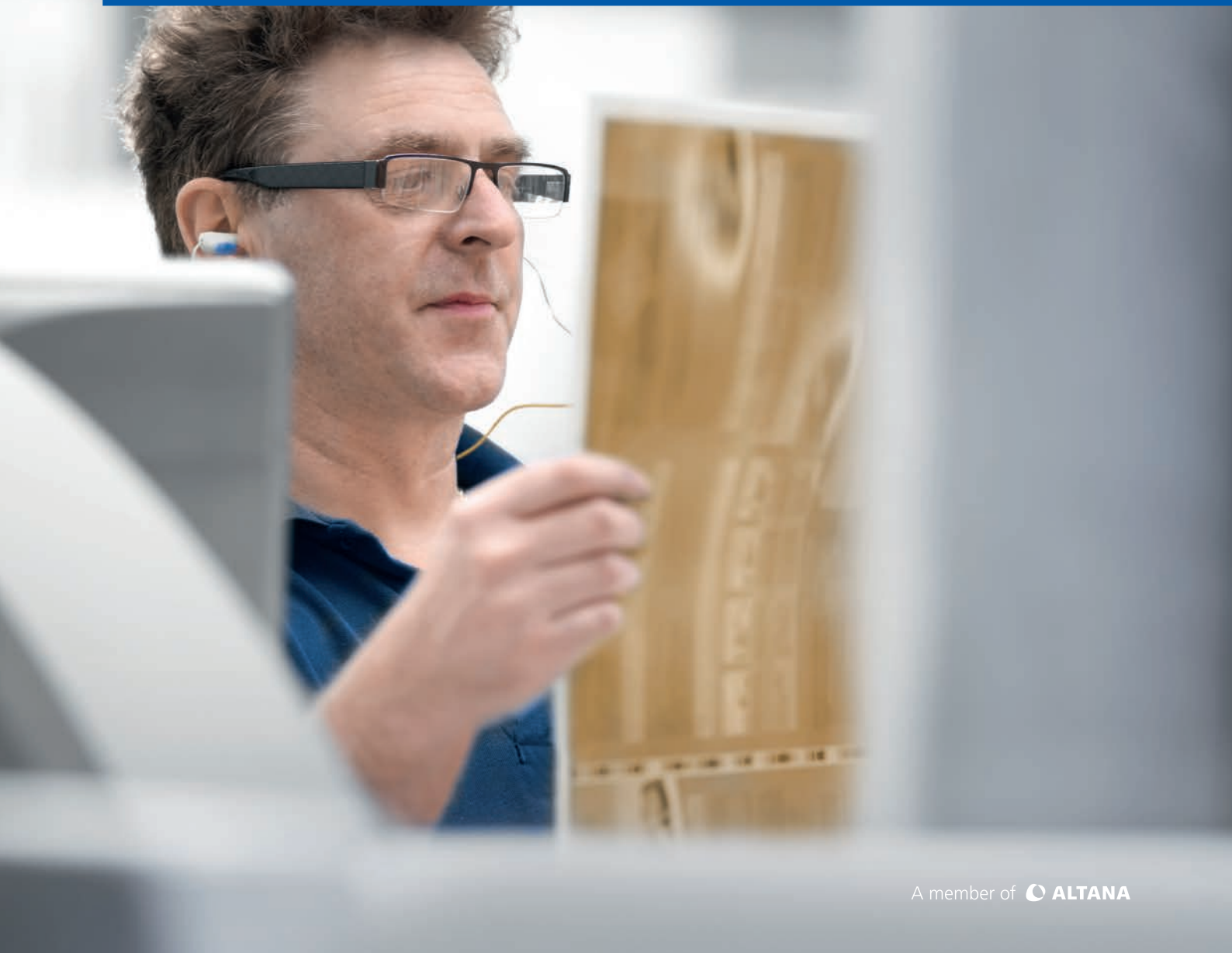


Coatings for

Publication & Commercial



ACTEGA offers many product solutions for Publication & Commercial.

Publication & Commercial consists of magazines, catalogs, direct mails, photo books, playing cards and many other printed applications. Discover our product solutions that range from primers to a great variety of overprint varnishes.



- Magazines
- Catalogs
- Books
- Brochures
- Direct Mail
- Photo Books
- Playing Cards

Our product portfolio is consistently tailored to customer requirements.



Our coating portfolio

Matt & Gloss Coatings	AQ		UV		Effect Coatings	AQ		UV		Functional Coatings	AQ		UV		Primers	AQ	UV	OB
	●	●	●	●		●	●	●	●		●	●	●	●		●	●	●
High gloss	●	●			Pearlescent	●	●			Encoding	●				Primer	●		
Gloss	●	●			Luminescent		●			Release		●			Drip Off Primer		●	●
Neutral	●				Metallic	●	●			Anti-curling	●							
Semi-matt	●	●			Drip Off	●	●			Protective	●	●						
Matt	●	●			Tactile	●	●											
Dull matt	●				Structure		●											
					Relief		●											
					Opaque White		●											

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

Portfolio according to processes



	Sheet-fed offset		Web offset	Screen	Offline	Digital		UV inkjet	Aqueous inkjet
	coating unit	ink duct				Liquid toner for EP	Dry toner for EP		
AQ	●	●	●		●	●	●	●	●
UV	●	●		●	●	●	●	●	●

As versatile as printed products: Our coatings meet all of your needs.

This is a general portfolio description. Please refer to the individual coating in order to receive the real property profile.

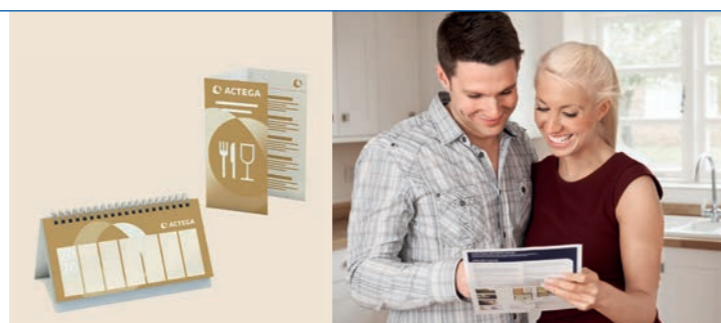
Publications

- High-value tactile and visual effects
- Great choice of pigmented systems
- Foil stampable
- Low structure
- Anti-curling behavior
- Fast drying
- High scratch and scuff resistance
- For one- and two-sided coating



Commercials

- Tactile and visual effects
- Products for personalization
- Fast drying
- High scratch and scuff resistance
- High block resistance
- High wet block resistance
- For one- and two-sided coating



Playing Cards

- Excellent fan
- Very good playability
- Hand sweat resistance
- For playing cards in casino quality
- For standard playing cards
- Legally compliant (ToySafe®)

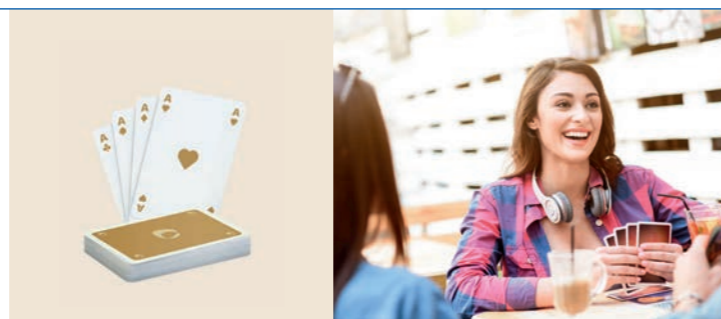


Photo Products

- Excellent UV high gloss
- High transparency for brilliant color reproduction
- Very good toner adhesion
- Water and dirt resistance
- No yellowing
- Fast drying
- For one- and two-sided coating



ACTDigi® Innovative coating solutions for digital printing.

With the focus on innovative and high quality products, technical support and services, ACTEGA provides a broad variety of solutions for digital printing. Our products are especially adapted to the different digital printing processes, ink systems or toners, to substrates as well as to the diverse printing press manufacturers. Our coating solutions are characterized by:

Products suitable for:

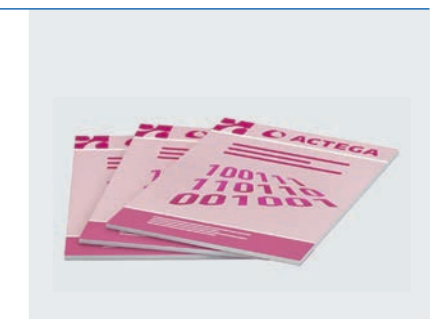
- | | | |
|-------------------|------------------|----------------|
| · Argos Solutions | · Harris & Bruno | · TEC Lighting |
| · Digicon | · HP-Indigo | · Tresu |
| · Duplo | · Hunkeler | · Xeikon |
| · Durst | · Kisun | · Xerox * |
| · Canon/OCÉ * | · Kodak | |
| | · Konica Minolta | |



* approved. Please contact us to learn more about our coating solutions provided for the various toners or coating devices.

Digital Printing

- Good wetting capabilities on respective ink systems
- No penetration on unprinted areas
- Low odor
- Fast drying, high reactivity (UV)
- No yellowing
- Products for substrate enhancement (primers)
- Very high surface adhesion (primers)
- Dot-sharp color reproduction (primers)



Discover our selection of innovative brands.

Mirafoil®

Our innovative alternative to foil board laminating and hot foil stamping. MiraFoil coating is an environmentally sustainable alternative to foil board laminating and hot foil stamping that is equally brilliant to foil. This UV metallic coating is overprintable, UV curable and can be applied to precise areas.

TerraScreen

Our leading brand of coating solutions for screen printing. TerraScreen is a comprehensive portfolio of coatings for screen printing based on high quality products. Whether high gloss, matt, fine and coarse structure or relief effects, our coatings offer high mechanical resistance, an outstanding finishing and stable technical characteristics. For an eye-catching finishing together with excellent technical support and services.

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.

ToySafe®

Our brand of certified coatings for the toy industry. ToySafe coatings comply with the high safety requirements of the toy industry. They are free of bisphenol A, heavy metals, benzophenone and plasticisers; compliant with applicable norms, guidelines and certified by accredited testing laboratories.



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

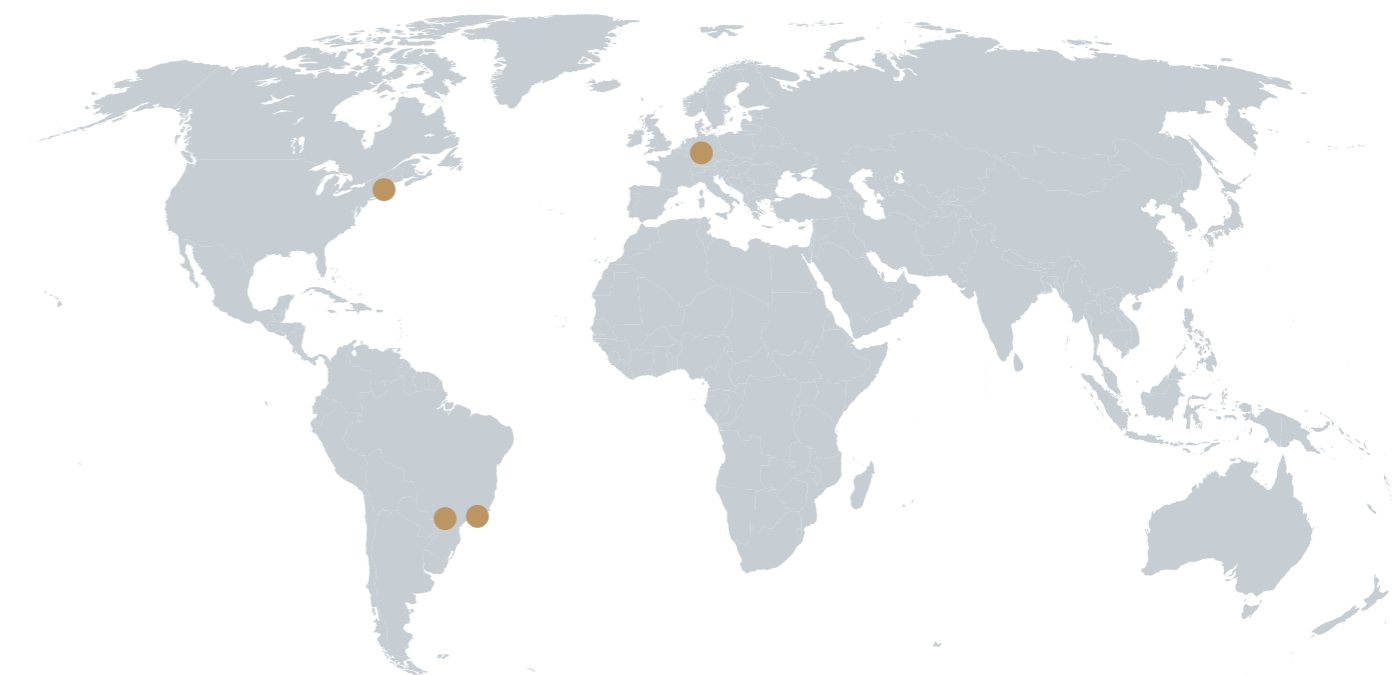


Product Development

- 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 four companies serving the Publication & Commercial 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 Publication & Commercial:

Publication & Commercial	ACTEGA North America (USA)	ACTEGA Overlake (Brazil)	ACTEGA Premiata (Brazil)	ACTEGA Terra (Germany)
Coatings (water-based)	●	●		●
Coatings (UV)	●	●	●	●
Inks (UV)			●	
Inks (oil-based)			●	

A member of  **ALTANA**