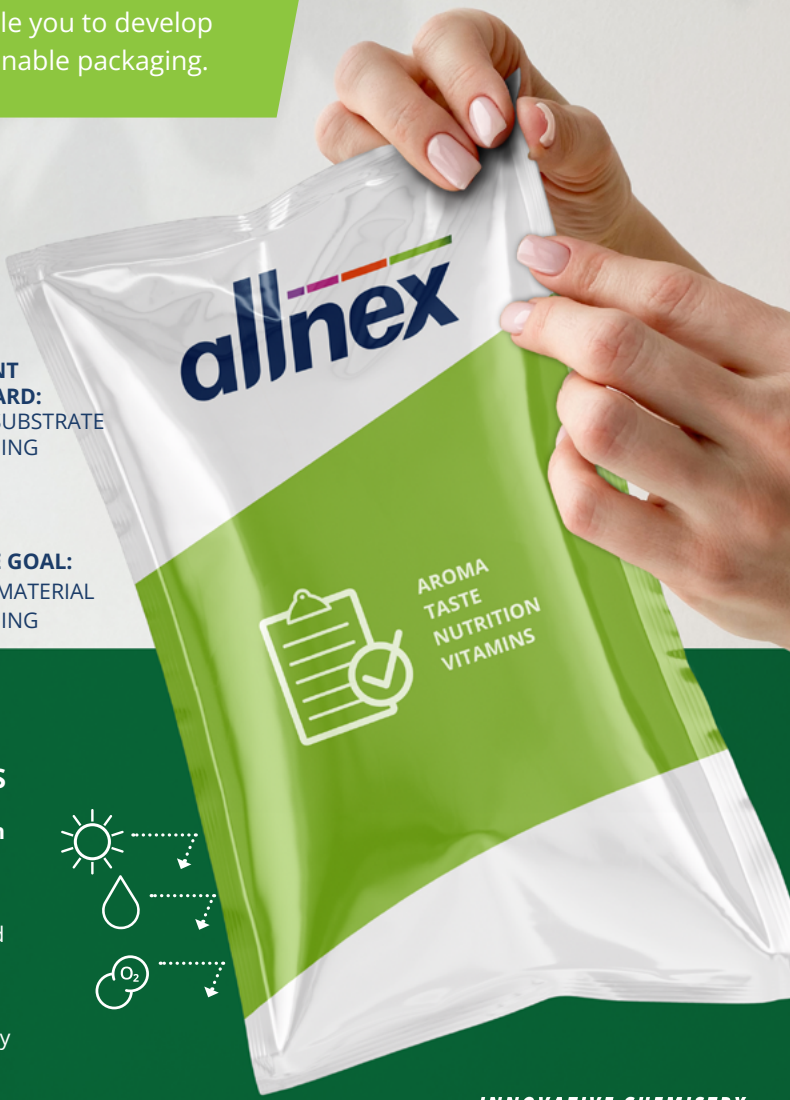
From multi to mono *in flexible packaging*

We offer a broad portfolio of different technologies that enable you to develop a reduced, more sustainable packaging.

CURRENT STANDARD:
MULTI-SUBSTRATE PACKAGING

FUTURE GOAL:
MONO-MATERIAL PACKAGING



FLEXPACK REQUIREMENTS

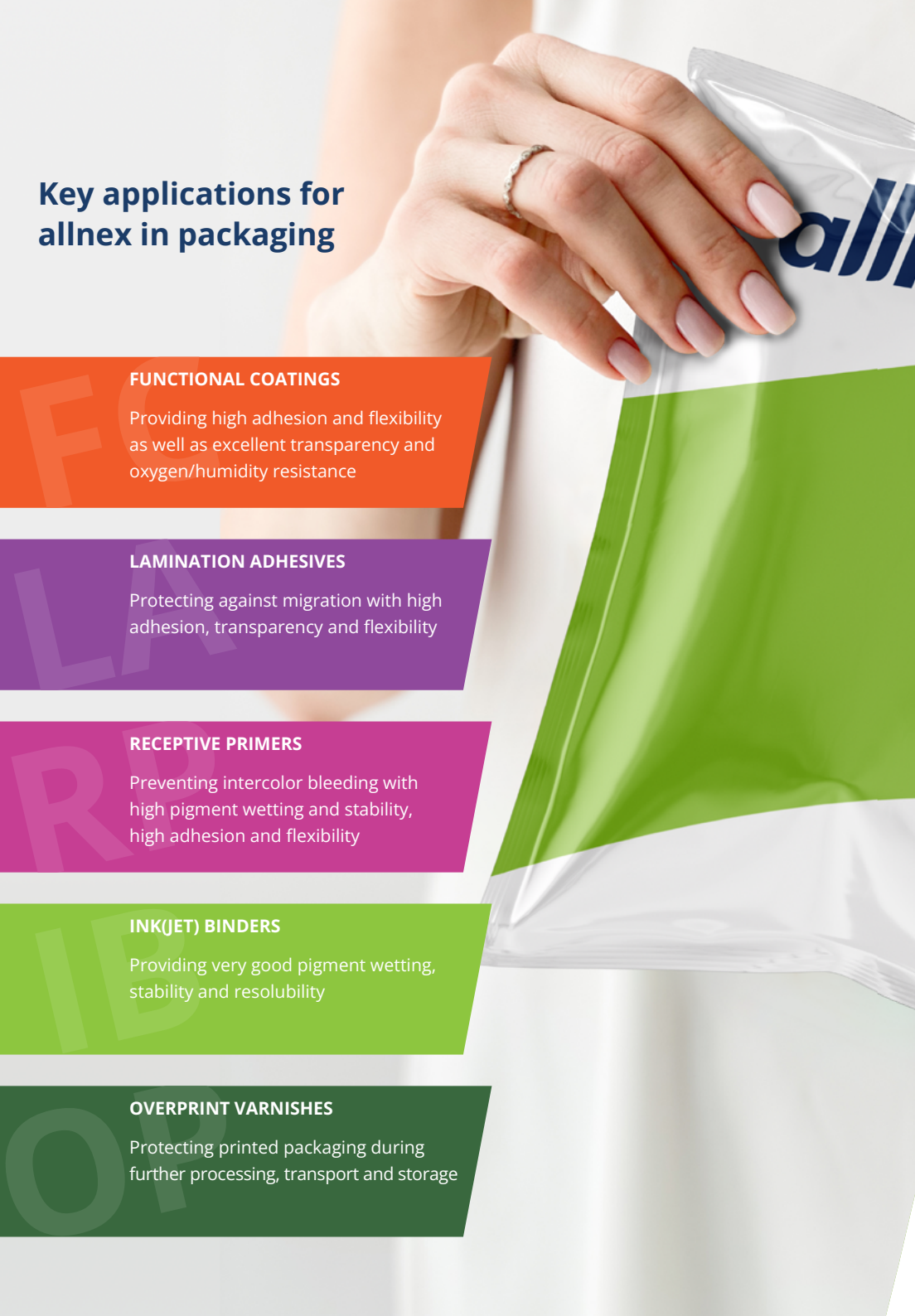
Keep good things in and bad things out

Essential for food, pharmaceuticals and beverages

Preserves nutrition, taste and consistency

INNOVATIVE CHEMISTRY FOR ALL NEX›T GENERATIONS

Key applications for allnex in packaging



FUNCTIONAL COATINGS

Providing high adhesion and flexibility as well as excellent transparency and oxygen/humidity resistance

LAMINATION ADHESIVES

Protecting against migration with high adhesion, transparency and flexibility

RECEPTIVE PRIMERS

Preventing intercolor bleeding with high pigment wetting and stability, high adhesion and flexibility

INK(JET) BINDERS

Providing very good pigment wetting, stability and resolubility

OVERPRINT VARNISHES

Protecting printed packaging during further processing, transport and storage

Our water-based PU dispersions

Improve functional coatings, primers and lamination

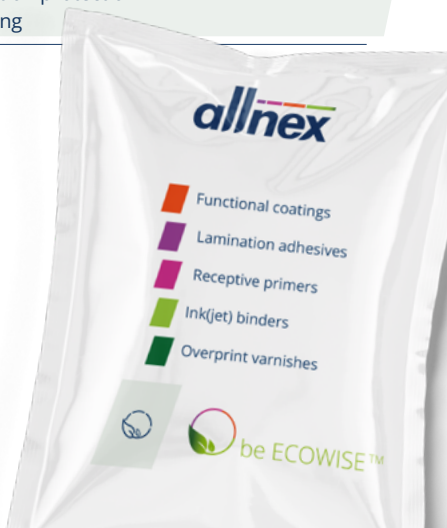
ECOWISE™ CHOICE is the top tier in allnex's sustainable portfolio. These products pass every stage gate of our PSA, meeting strict criteria on chemicals of concern, five key sustainability areas, and adherence to leading industry standards and ecolabels. Designed to future-proof businesses, ECOWISE™ CHOICE products enable timely, sustainable solutions that keep pace with market demands.

Product	Backbone	Suitable for	Value proposition	Key application fit
DAOTAN® TW 6425	Aromatic polyester	PP, PE, PET, paper, textile	• Inkjet binder, OPV • Fast drying low MFFT	
DAOTAN® TW 6431	Polybutadiene	PP, PE, PET, paper	• Ink primer • Heat sealing • Anti block properties	
DAOTAN® TW 6450	Aliphatic polycarbonate	Met PP, PE, MDOPE aluminium foils	• Flex crack and moisture resistance • Water resistance • Oxygen barrier • Fast drying • Metalization anchorage layer	
DAOTAN® TW 6464/7064	Aliphatic polyester/acrylic	PP, PET, PE, paper	• Inkjet binder • Primer • No color bleeding • Anti block	
DAOTAN® TW 7000	Aliphatic polycarbonate	PP, PET, PE, Metallized films	• Inkjet • Flex crack resistance • Metalization protection • Fast drying	

WATER-BASED PU DISPERSIONS

Growing market demand for WB technologies allnex's PUD technology provides broad range of properties meeting flexpack requirements:

- Very good adhesion to plastics
- High flexibility and elongation
- Basic barrier properties against oxygen or moisture
- No VOCs, free of emulsifiers and solvents
- Sterilization resistance



Our high-performing liquid resins

Enhance packaging coatings, inks and lamination

Product	Technology	Suitable for	Value proposition	Key application fit
SETAQUA® 6302	Waterborne acrylics	PP, PE, PET	• Wide polyolefn adhesion range • Antiblock properties • Heatsealing application	
SETAQUA® 6405	Waterborne acrylics	Glass, PET	• Wet-tack adhesive for labels	
SETAQUA® 6453/6723	Waterborne acrylics	PP, PE, PET, Paper	• Antiblock properties • No VOCs	
SETAQUA® 6754	Waterborne acrylics	PP, PE, PET, Paper	• Self-Crosslinking • Antiblock properties • No VOCs	
SETAQUA® 6756	Waterborne acrylics	PP, PE, PET, Paper	• Ink/jet primer	
UCECRYL® BMR47	Waterborne acrylics	PP, PE, PET, Paper	• High Initial (Green) Tack	
MODAFLOW® 9200	Low viscosity flow modifier	Solvent based formulation	• Improves flow and leveling • Maintains high gloss • Reduces pinholes and craters • Maintains substrate adhesion	
MODAFLOW® NSR 100	Solvent based modified silica dispersion	Acrylates and PU solvent based formulation	• Improves flow leveling • Improves mechanical resistance • Improves scratch resistance	
MODAFLOW® 3025	Acrylic flow additive for aqueous coating	Water based PUD and acrylic coatings	• Flow, leveling agent • Improved surface aspect • Rheology control	

be ECOWISE™

* ECOWISE™ CHOICE products are highlighted in light green

Our low-migration UV/EB-curable resins

Make safer packaging inks and overprint varnishes

Product	Backbone (modification)	Suitable substrates	Key properties	Main application benefits	Food contact	Key application fit
EBECRYL® LEO 10101/ 10103	Polyester acrylate	Paper food packaging, plastics	Creates radicals, crosslinked in the network, for litho, flexo and inkjet	No migration of photoinitiators	Indirect	
EBECRYL® LEO 10501	TMPEOTA	Paper food packaging, plastics	Diluting acrylate, reactivity, for litho and flexo	Low residuals, high crosslinking	Indirect	
EBECRYL® 820	Fatty acid-modified polyester acrylate	Paper food packaging, plastics	Pigment wetting for preparation of pigmented inks, for flexo	Good flow of flexo ink, high crosslinking degree	Indirect	
EBECRYL® 45	Low-viscous polyester acrylate	Paper food packaging, plastics	High-functional diluting acrylate, for flexo	Low residuals, high crosslinking	Indirect	
EBECRYL® LED 03/04/05	Aminated polyester acrylate	Paper food packaging, plastics*	Amine synergist, for litho and flexo	Boosts surface cure of inks and OPVs under LED UV	Indirect	
EBECRYL® 367	Proprietary polyester acrylate	BOPP*, PE*, PLA, PA, PET*	Adhesion promoter	Unique adhesion chemistry for plastics*	Indirect	
UCECOAT® 2804	Acrylated polyurethane dispersion (UV PUD)	BOPP, PE, PVC, PA, PET*	Waterbased high MW urethane acrylate	Good adhesion, highly reactive	Indirect	

* Corona-treated

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Want to know more?

The QR-code leads to our web page where you'll find more information about our flexible packaging coatings and inks.

www.allnex.com

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