

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





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

Product	Backbone	Suitable for	Value proposition	Key application fit
DAOTAN® TW 6450	Aliphatic polycarbonate	PP, PE, HDPE, PET	<ul style="list-style-type: none">• Excellent peel strength• Moisture resistant	
DAOTAN® TW 6452	Aliphatic polycarbonate	PA, PP, PE, HDPE, PET	<ul style="list-style-type: none">• Block resistance• Moisture barrier	
DAOTAN® TW 6464/7064	Aliphatic polyester/acrylic	PC, ABS, PP, PET, paper	<ul style="list-style-type: none">• Inkjet-compatible• No color bleeding	
DAOTAN® TW 6490/6495	Aliphatic polyester	ABS, PMMA, PC, PET	<ul style="list-style-type: none">• Excellent mechanical properties• High elasticity	
DAOTAN® TW 7000	Aliphatic polycarbonate	PP, PE, HDPE, PET, paper	<ul style="list-style-type: none">• Allrounder• O₂ and moisture resistant	
DAOTAN® TW 7010	Aliphatic polycarbonate	PP, PE, HDPE, PET, paper	<ul style="list-style-type: none">• Moisture resistant• Plasticizer barrier	

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	Key products*	Value proposition	Key application fit
SETAQUA®	Waterborne acrylics	6719 , 6376, 6401, 6406, 6754 , 6755, 6756 , 6768, 6776, 6799	<ul style="list-style-type: none"> • Adhesion to a wide range of substrates and broad resistances • Less expensive and softer than WB PUDs • Low/no VOCs 	
MACRYNAL®		6826w		
DAOTAN®	Waterborne polyurethane dispersions	6425 , 6450 , 6452 , 6462, 6464, 6490, 7000 , 7010, 7050	<ul style="list-style-type: none"> • Adhesion to a wide range of substrates • Good hardness and flexibility • Fast drying • Broad resistances • No harmful ingredients, low/no VOCs 	
RESYDROL®	Waterborne polyesters	5547w, 6150, SF 8000	<ul style="list-style-type: none"> • Good balance of properties • Excellent adhesion • Excellent blocking resistance 	
SETALUX®	Solventborne acrylics/alkyds	1193, 1518	<ul style="list-style-type: none"> • Adhesion to a wide range of substrates 	
SETAL®		189, 1406	<ul style="list-style-type: none"> • Good hardness and flexibility 	
MACRYNAL®		2155	<ul style="list-style-type: none"> • Fast drying • Broad resistances 	
ADDITOL®	Additives	6394, 6584, 6585, 6592, 6565	<ul style="list-style-type: none"> • Wetting and dispersing additives • Flow and leveling additives • Defoamers and deaerators 	
MODAFLOW®		Lambda, NSR 100	<ul style="list-style-type: none"> • Rheology modifiers • Driers and catalysts 	



* ECOWISE™ CHOICE products are highlighted in bold

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



Allnex Management GmbH
The Squire 13, Am Flughafen
60549 Frankfurt am Main, Germany



Contact:

Andreas Jansen

Email: andreas.jansen@allnex.com

Phone: +49 160 90815445



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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