

Solutions for waterborne synthetic materials

Overcoat and protective

- Designed for high adhesion to PVC and PU based synthetic materials for automotive, contract, accessories, bags and shoes.
- ESACOTE® PVC top finish, pre formulated components for improving the overcoating performance on printed or pigmented PVC.
- ROLFLEX® waterborne polyurethane and acrylic film forming building blocks to create high performing formulations.
- Inherently matt waterborne film forming polymers to pass the high standard in abrasion and flexibility.
- Easy to be formulated.
- Specific grades with Low VOC.
- Outstanding flexibility and abrasion resistance.
- Chemical and thermal resistance along with light fastness.
- Specific grades certified **ZDHC level 3** and **BLUESIGN® approved**.

Skin & adhesives

- ROLFLEX® Skin and Adhesives are waterborne polyurethanes and acrylic dispersions to maximize the design freedom.
- High solid waterborne polyurethanes for high mechanical resistance foam and coating.
- Boosted by ROLFLEX® blocked isocyanate crosslinkers to improve the performances and fastness and by VISCOLAM® rheology modifiers to easily run on every machine.
- Waterborne polyurethane dispersion highly compatible with pigment dispersions for intermediate layers.
- Dry adhesive soft and elastic for lamination temperature starting from 110°C to higher.
- Wet adhesive for fast drying and high hydrolysis resistance.
- Specific grades solvent free.
- Specific grades certified **ZDHC level 3** and **BLUESIGN® approved**.

Matting agent

- DECOSPHAERA® polyurethane beads are designed for being easily formulated to waterbased polymers.
- DECOSPHAERA® are compatible with solvent based traditional chemicals to boost the matting performance and overcoat protection of synthetic materials.
- Polymeric matting agent to improve abrasion and scratch resistance without affecting the gloss variations.
- Designed to provide a deep matt at high gloss angles.
- Specific grades made from biobased renewable raw materials.

Renewable solutions

- ROLFLEX®, VISCOLAM®, ESACOTE® are designed for new generation of performance coating fully compliant with the **Zero Discharge of Hazardous Chemicals (ZDHC)**, **Manufacturing restricted substance list (MRSL)**, **BLUESIGN® approved products**.

Esacote® for overcoat and protective



Product	Chemical	Solid content	Gloss	Automotive	Bags and Shoes	Contract	Other info
PVC TOP K	PUD	30%	<1	x		x	Good adhesion on PVC, good flexibility
PVC TOP DH	PUD	30%	<1	x		x	Good adhesion on PVC, good flexibility
PVC TOP HA	PUD	30%	<1	x		x	Good adhesion on PVC, good flexibility
LAMFINISH TOP UP/G	PUD/AC	30%	>50		x	x	Good adhesion on PU and printed substrates
LAMFINISH TOP UP/O	PUD/AC	35%	<1		x	x	Good adhesion on PU and printed substrates

Rolflex® for synthetic material formulators

Product	Chemical	Solid content	Gloss	Other info
OP 996 EXP	PC - PUD	26%	<1	Rigid, low gloss PUD with improved abrasion, chemical resistance, thermal resistance
OP 888	PE - PUD	32%	<1	Soft, low gloss PUD
OP 80	PE - PUD	32%	<1	Medium-soft, low gloss PUD
OP 989	PES - PUD	25%	<1	Matting agent with improved abrasion resistance and flexibility
T 87	PC - PUD	35%	>50	Medium-soft polycarbonate with excellent flexibility and chemical resistance
T 63	PES - PUD	35%	>50	Medium-soft PUD with excellent adhesion on PVC/PU substrates
AL 62	PES - PUD	35%	>50	Medium-soft PUD with good adhesion and abrasion resistance
ACF	PC - PUD	35%	>50	Rigid polycarbonate with excellent abrasion resistance
V13	PE - PUD / AC	35%	>50	Rigid polyester with excellent abrasion resistance
PU 148	PE - PUD / AC	35%	>50	Rigid polyether with excellent abrasion resistance

Rolflex® for skin

Product	Chemical	Solid content	Other info
HS 18	PE-PUD	60%	Medium-rigid, high mechanical resistance used in foam and coating
BZ 78	PES-PUD	50%	Medium-soft mechanical resistance used in foam and coating
ZB 7	PES-PUD	50%	Soft mechanical used in foam and coating
T 87	PC-PUD	35%	Rigid and elastic, for coating
VLM	PES-PUD	35%	Rigid, high compatibility with pigments, for coating

Rolflex® for adhesives

Product	Chemical	Solid content	Other info
A440	PE-PUD	40%	Adhesive soft and elastic with high breathability and lamination Temperature starting from 110C
A590	PE-PUD	32%	Adhesive soft and elastic for automotive application and lamination Temperature stating from 110C
HS 18	PE-PUD	60%	Fast drying, high hydrolysis resistance, for Wet lamination
DAK 07	PES-PUD	40%	Excellence adhesion for wet and dry lamination working from 130C
ADT 7	PE-PUD	35%	High hydrolysis resistance, for Wet lamination

Rolflex® for crosslinkers

Product	Chemical	Solid content	Other info
CX 021	Carbodiimide	50%	Carbodiimide crosslinker
CX 013	Isocyanate	70%	Isocyanate crosslinker
BK FREE	BK Isocyanate	35%	Blocked isocyanate crosslinker for self curing coating starting from 120°C

Viscolam® rheology modifiers

Product	Chemical	Solid content	Other info
1020	PU	20%	Newtonian VOC free polyurethane associative thickener for controlling levelling and rheology in graveoure coating
1022	PU	25%	Medium pseudoplastic polyurethane associative thickener for coating formulations
170 AIR	PU	50%	Medium pseudoplastic VOC free polyurethane associative thickener for coating formulations

Decosphæra® matting additives

Product	Chemical	Solid content	Other info
8-20 HT	PE-PUD	100%	Powder 5-8 micron particle size, transparent for high thermal and abrasion resistance.
8-PC	PC-PUD	100%	Powder 5-8 micron particle size, transparent for high mechanical and abrasion resistance
BIO 8	PE-PUD	100%	Powder 5-8 micron particle size, transparent for high thermal and abrasion resistance, biobased.
ADIMATT 8FT	PE-PUD	36%	Ready to use dispersion of polyurethane beads