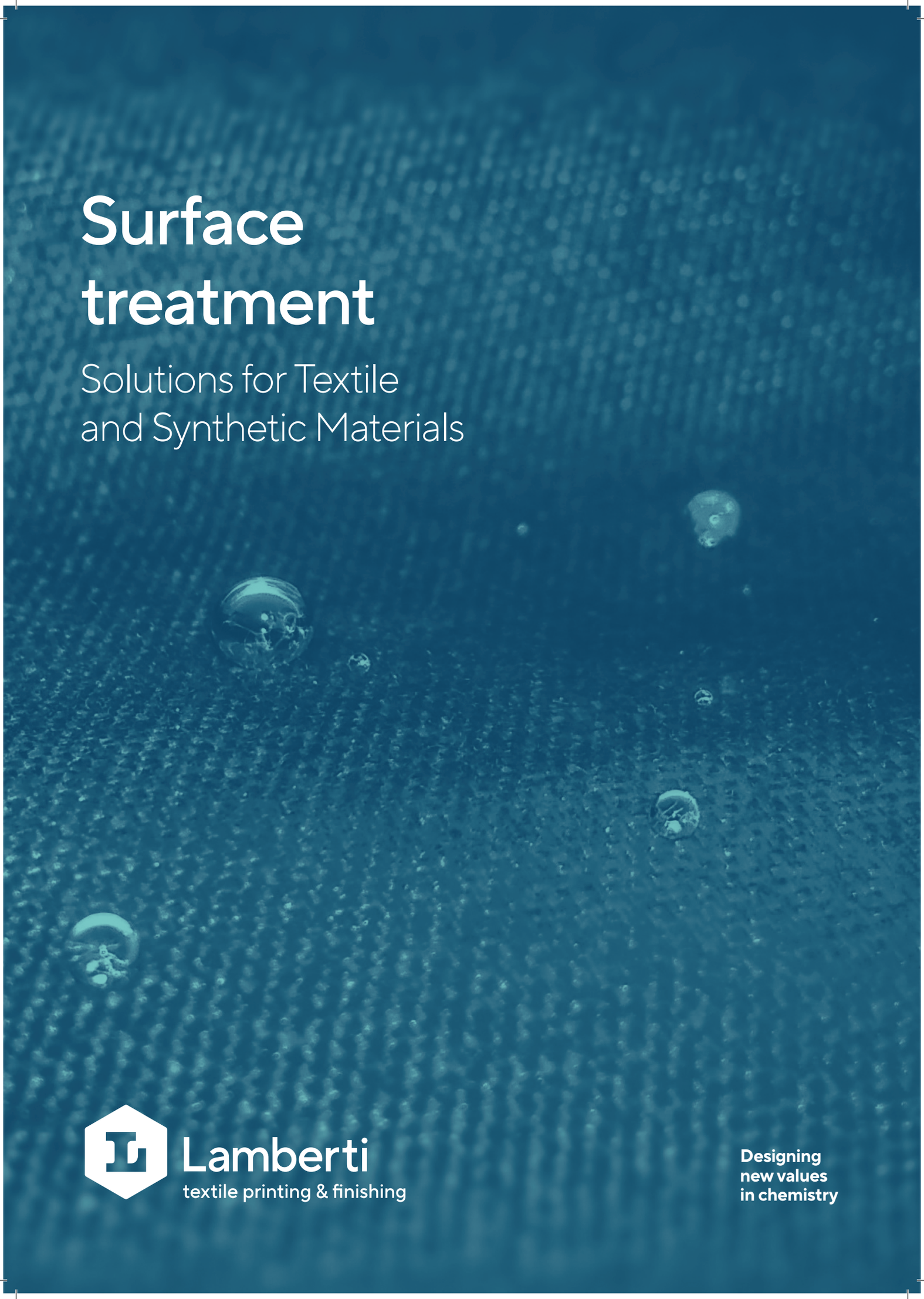

Surface treatment

Solutions for Textile and Synthetic Materials

Lamberti
textile printing & finishing

Designing new values in chemistry

A smart toolbox to face the coating's challenges!

Lamberti range provides high performance building blocks to create **innovative solutions** with reduced environmental impact for infinite applications on textile printing, textile finishing/coating and synthetic materials.

We at Lamberti foster our path towards sustainability and circular economy moving in four main directions:

- **Performances:** higher durability of goods;
- **Biobased content:** higher renewable raw materials content without decrease in performances;
- **Waterborne products:** continuous focus on the cosolvent and Volatile Organic Compound (VOC) reduction;
- **Process optimization:** constant improvement of industrial processes with the aim to reduce the consumption of energy, water and air, improving efficiency and sustainability.

Our technological expertise

Biobased Waterborne technologies

Biodegradable surfactants

Natural Polymers

Anionic polyurethane dispersions

Polycarbonates												
Product	**Solid content**	**Co-solvent**	**Hardness**		**Mechanical properties**			**Applications**				
			König	**Shore**	**100 % modulus (MPa)**	**Tensile Strenght (MPa)**	**Elonga-tion at break (%)**	**Padding**	**Foaming**	**Coating**	**Printing**	**Lamination**
ROLFLEX® K 077	35 %	MEK - < 1 %	110	D 55	15**	26**	250**	x		x		
ROLFLEX® ACF ●	35 %	DMM* - 8 %	153	D 65	13**	18**	190**	x	x	x		
ROLFLEX® T 87	35 %	DMM* - 4 %	35	-	5.5	25	350			x		
Polyesters												
ROLFLEX® VLM	35 %	MEK - < 1 %	55	-	9	42	405			x		
ROLFLEX® AL 62	35 %	DMM – 5 %	47	D 50	6.8	25	480			x		
ROLFLEX® T 63 ●	35 %	DMM – 5 %	27	A 70	2.6	20	530	x		x		x
ROLFLEX® BZ 78 ●	50 %	Acetone - < 1 %	28	A 65	1.1	5.5	600	x	x	x	x	
ROLFLEX® DAK 07 ●	40 %	MEK - < 1 %	-	A 40	1.3	4	880			x		x
ROLFLEX® CZ 47/P ●	50 %	Acetone - < 1 %	-	A 50	0.5	4	800		x	x	x	x
Polyethers												
ROLFLEX® MV 15 ●	30 %	DMM* – 5 %	84	D 60	12	20	240	x		x		
ROLFLEX® MV 24	35 %	DMM* – 5 %	80	-	8	15	300	x		x		
ROLFLEX® D 67 ●	40 %	**FREE**	30	-	4.1	18	680		x	x		
ROLFLEX® DV 5	35 %	DMM* – 5 %	27	A 80	4	17	650			x	x	
ROLFLEX® ADH 190	35 %	**FREE**	-	A 70	3.5	20	600			x		x
ROLFLEX® D 27 ●	40 %	**FREE**	28	D 30	3.5	18	530			x		
ROLFLEX® HS 18 ●	60 %	**FREE**	38	A 50	3	15	600		x	x	x	x
ROLFLEX® D 70	40 %	**FREE**	-	A 40	1.5	13	800		x	x		
ROLFLEX® AD 45 ●	30 %	DMM* – 3 %	-	A 60	1.4	20	550	x		x		x
ROLFLEX FR 66	40 %	**FREE**	-	A 30	0.6	3	800	x	x	x		
ROLFLEX® A 440	40 %	**FREE**	-	A 25	0.3	1	> 1000			x		x

Non-ionic polyurethane dispersions

Polyesters												
Product	**Solid content**	**Co-solvent**	**Hardness**		**Mechanical properties**			**Applications**				
			König	**Shore**	**100 % modulus (MPa)**	**Tensile Strenght (MPa)**	**Elonga-tion at break (%)**	**Padding**	**Foaming**	**Coating**	**Printing**	**Lamination**
ROLFLEX® 3511	30 %	DMM* – 5 %	20	A 60	0.9	6	850	x		x	x	
Polyethers												
ROLFLEX® N 58 ●	30 %	Acetone < 1 %	-	-	-	-	-	x		x		
ROLFLEX® N 54 ●	30 %	Acetone < 1 %	-	A 55	0.5	1	900	x		x	x	
ROLFLEX® SW 3 ●	35 %	Acetone < 1 %	20	A 35	0.5	2.5	1000	x		x		

● Bluesign® approved product

Available version based on renewable resources

* Dipropylene glycol Dimethyl ethe

** Film made using co-solvent

Cationic polyurethane dispersions

Product	Solid content	Co-solvent	Hardness		Mechanical properties			Applications				
			König	Shore	100 % modulus (MPa)	Tensile Strenght (MPa)	Elonga-tion at break (%)	Padding	Foaming	Coating	Printing	Lamination
Polycarbonate												
ROLFLEX® C 1	30 %	Acetone < 1 %	25	D 40	3	8	300	x		x		
Polyethers												
ROLFLEX® CN 29 ●	30 %	**FREE**	-	-	-	-	-	x		x		

Urethan-acrylic hybrid resins

Product	Solid content	Co-solvent	Hardness		Mechanical properties			Applications				
			König	Shore	100 % modulus (MPa)	Tensile Strenght (MPa)	Elonga-tion at break (%)	Padding	Foaming	Coating	Printing	Lamination
ROLFLEX® XL 23	35 %	Acetone < 1 %	150	-	18**	25**	145**	x		x		
ROLFLEX® PU 148 ●	35 %	Acetone < 1 %	108	D 55	17**	25**	230**	x		x		
ROLFLEX® V 13	35 %	DMM* - 4 %	75	D 60	10	20	280	x		x		
ROLFLEX® K 80	35 %	Acetone < 1 %	22	D 45	5.5	13	350	x		x		x
ROLFLEX® K 110 ●	40 %	Acetone < 1 %	-	A 45	0.25	1.4	> 1000	x		x		

Acrylic resins

Product	Solid content	Tg (°C)	Hardness	Applications				
			König	Padding	Foaming	Coating	Printing	Lamination
SIPACRIL CP 34	45 %	-30	-	x	x	x	x	
SIPACRIL CP 29 ●	45 %	-11	< 20	x		x	x	x
SIPACRIL HP 1000	35 %	-13	-	x	x	x		
SIPACRIL MA ●	40 %	-10	< 20	x		x	x	
SIPACRIL PLA	40 %	+12	30	x		x		x
SIPACRIL KR	47 %	+16	35	x	x	x		
SIPACRIL RGD	40 %	+29	56	x		x		
Self-crosslinking								
SIPACRIL AMC	38 %	-3	?			x		
SIPACRIL 298	40 %	+23	38			x		
Hydroxylated								
SIPACRIL 302	50 %	-40	50	x	x	x		
SIPACRIL OX	40 %	+55	150	x		x		

Inherently matt polyurethane dispersions

Product	Solid content	Co-solvent	Hardness	Chemistry	Gloss unit 60 °
			König		
ROLFLEX® OP 80	32 %	**FREE**	36	Soft Polyether	< 1
ROLFLEX® OP 888 ●	32 %	**FREE**	48	Soft Polyether	0.8 – 1.2
ROLFLEX® OP 997	25 %	DMM* - 3 %	80	Very rigid Polycarbonate	< 0.6
ROLFLEX® OP 99	28 %	DMM* - 3 %	52	Rigid Polycarbonate	< 1

The Lamberti Group

Explore, Design, Provide, Evolve.
We design and produce customized chemical solutions for different industries: not simply products or formulations, but sets of skills, capabilities, visions, developed with dedication and attention to our customers. Our science is made of experience, technology, and precision, for tailoring and delivering high performing solutions to our customers. Our ability to fit any market evolution demonstrates our capacity to be creative and innovative.

The history of our company is continually written by people's living stories.
Since 1911, our experience stems from over a century of history. From the initial affiliation to the textile industry, we have learned the value of being part of structured eco-systems. Over time, we have invested in industrial plants and laboratories to cover all geographies. We have fostered a network of relationships, a rich wellspring of experience that gives value to our people.

We want to do better, creating a positive legacy for the future of the planet and living species.
Sustainability became a crucial challenge for Lamberti that we addressed with the subscription to international programs (RSPO and Ecovadis) as well as with the voluntary publication of the Group's Sustainability Report (2020).

Our technologies per market

	Cellulosics	Hydrocolloids	Acrylics	Waterbased polyurethanes	Oleochemicals
Agriculture	•	•	•		•
Personal care	•	•	•	•	•
Food and regulated industries	•	•			
Oil&gas	•	•	•		•
Mining and civil engineering	•	•	•		•
Ceramics and glassware	•	•	•	•	•
Surfactants					•
Wetend paper	•	•			
Drymix for construction	•	•			•
Textile printing and finishing	•	•	•	•	•
Architectural paints	•	•	•	•	•
Coated and functional paper	•	•	•	•	•
Industrial coating			•	•	•
Digital inks			•	•	•
Inks ingredients			•	•	•
Leather finishing			•	•	
Synthetic materials		•	•	•	•

textile.lamberti.com