



PASSION FOR FUNCTIONAL  
FINISHES

Innovative and  
tailor-made solutions







/ How do we  
bring **best-in-**  
**class** expertise,  
sustainability  
and performance  
to **functional**  
**finishes?**

## CREATING SUSTAINABLE SOLUTIONS

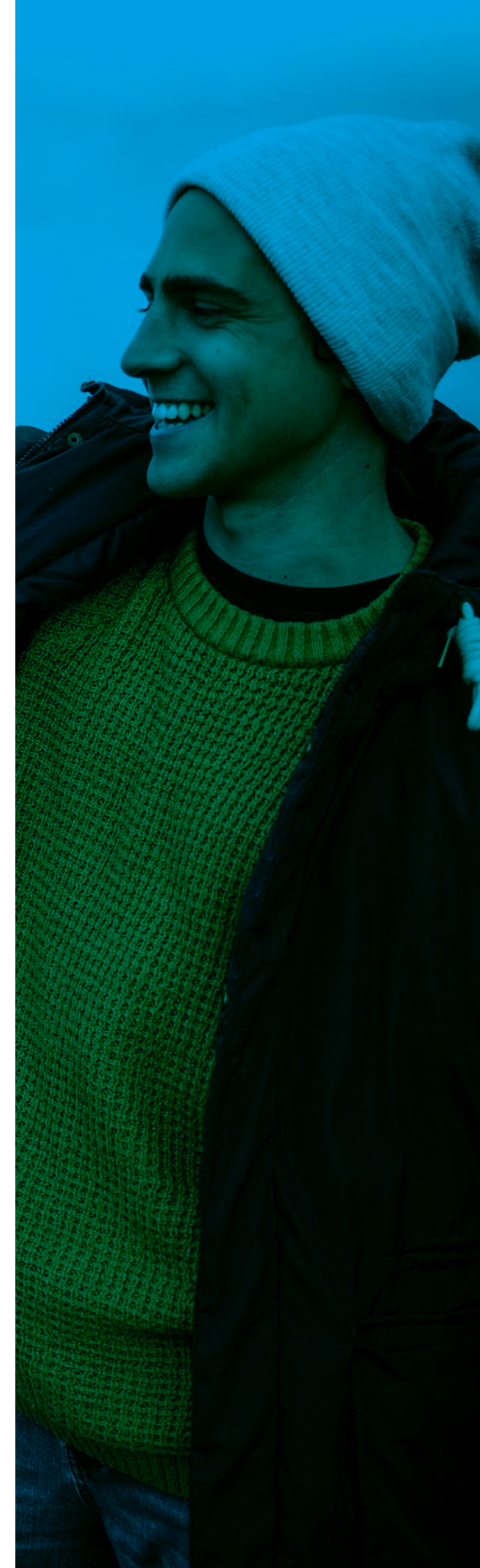
**At Archroma, we continuously challenge the status quo in the deep belief that we can make our industry sustainable.**

Archroma is committed to developing innovative products and processes that are safer for the consumer and for the environment. We strongly believe, based on our extensive experience in textile processing, that sustainability can generate innovation, performance and often lead to cost reductions and added value for our customers. For this reason, our clear ambition is to offer our customers the best possible system for their textile segments.

Innovation is a core competence of Archroma, which ensures that our products and services meet future demands, foster future technologies and contribute to a more sustainable textile industry.

As a global leader in color and specialty chemicals with a trusted heritage, we offer bespoke product solution systems and innovations. We strive to be a reliable partner for textile mills as well as major retailers and brands for the whole textile chain – **from the first idea to the final article.**

Brand owners and retailers around the world are taking action to evaluate the environmental impact of textile treatment, dyeing and finishing processes in response to consumer concerns. We can support textile manufacturers with this. Our exclusive ONE WAY Process Simulator can be used to simulate and compare products and processes, and thus calculate the ecological and economical profile of the final end-product.





/ ABOUT US

Archroma is a **global color and specialty chemicals** company committed to innovation, world-class quality standards, high service levels, cost-efficiency and sustainability.

**From fiber to finish**, Archroma plays a key role throughout the entire textile supply chain, with special system solutions for spinning, sizing, pretreatment, optical brighteners, dyeing printing and finishing.

At Archroma, **we share your passion for functional finishes**, and we bring our expertise, innovation power and our commitment to sustainability into developing cutting-edge technologies and products to support your needs.

Archroma has specialized Competence Centers bringing to our customers:

- A hub of knowledge, R&D, expertise, technology and creativity support;
- A wide range of testing and consulting services in the **synthetics & wool, cellulosics, printing, finishing & denim segments**;
- A complete system offering thanks to our unique combination of expertise in spinning, pretreatment, coloration, as well as finishing;
- Access to global and regional knowledge and expert network for seamless support in global supply chain management;
- Powerful training centers for our affiliates, partners and customers.

At Archroma, we continuously challenge the status quo in the deep belief that we can make our industry sustainable.

The majority of Archroma’s products are certified by some of the most important eco-standards such as:

• bluesign®

• Oeko-Tex®

• GOTS

• ZDHC

• REACH

• EU Ecolabel

• C2C

• RSL

• MRSL

/ OUTSTANDING FUNCTIONAL EFFECTS

Textiles are a huge part of our day-to-day lives. From the clothes we wear to the bedsheets we sleep on, there is a wide spectrum of applications for textiles and the functional needs for textiles can defer depending on the use. Textiles not only have to be soft, comfortable and easy to care but they also have to be waterproof, fire resistant, dimension-stable, antimicrobial, or provide long-term durability, to name just a few.

However, functionality alone is no longer enough to meet the requirements of millions of end-users. Aesthetics, design, color and ecology also need to be taken into consideration for life at home, at work or outdoors to be more secure, efficient and healthy, as well as a little bit more beautiful.

Whether the need is for apparel, sports, leisure wear, decorative home textiles such as curtains, blinds, mattresses, high performance materials for protective wear and uniforms, nonwovens used for interlining, filters, medical sterilization materials or the automotive industry, Archroma’s broad portfolio of innovative, effect-promoting finishes is highly valued among the technical textile sector for its focus on safety and ecology, as well as its contribution to improving manufacturing efficiency.

The possibilities are endless.

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LOW EMISSIVE CREASE AND SHRINK RESISTANCE: ARKOFIX® AND FIXAPRET®

Modern resin finishes make life easier for end-users. In response to growing market demand for easy-care and non-iron finishes on cellulosic fibers, Archroma has developed a wide range of resins and catalysts as well as economical processes with an environmentally friendly focus. We provide tailor-made solutions for Moist-Cure, Premium LT-Cure, Easy-Care, Post-Cure, Strength-Management and formaldehyde-free finishes.

Fabrics treated with our ETSI (Enhanced Textile Strength Improvement) system retain their high quality and are significantly more durable, even after repeated home laundering.



PRODUCT	PRODUCT PROPERTIES	APPLICATION PROPERTIES			APPLICATION			FIBER TYPE					
	Brief description	Reactivity	Chlorine resistance	Japan Law 112	Pad-Dry-Cure	Foam application	Garment dip	Moist Cure	Cellulosic	PES	PA	Wool	
REACTANT RESINS – FORMALDEHYDE-FREE													
Arkofix® NZW liq	Dimethyl-dihydroxy-ethyleneurea, formaldehyde-free, best white	ooo	oooo	n.d.	...	..	..		...	.	.	.	
Arkofix® NZF New liq	Dimethyl-dihydroxy-ethyleneurea, formaldehyde-free	ooo	oooo	n.d.	...	..	..		...	.	.	.	
Arkofix® NZK liq	Dimethyl-dihydroxy-ethyleneurea, formaldehyde-free, pre-catalyzed	ooo	oooo	n.d.	...	..	..		...	.	.	.	
Arkofix® NF liq	Dimethyl-dihydroxy-ethyleneurea, formaldehyde-free	ooo	oooo	n.d.	...	..	..		...	.	.	.	
Arkofix® WFF liq	Dimethyl-dihydroxy-ethyleneurea, formaldehyde-free	ooo	oooo	n.d.	...	..	..		...	.	.	.	
REACTANT RESINS													
Fixapret® CM liq c	DMDHEU, modified	oo	oooo*3	<75 ppm*2	.			...	...	.	.	.	
Fixapret® AMC liq c/ F-AMC liq	DMDHEU, modified	oo	oooo*3	<75 ppm*2	.			...	...	.	.	.	
Fixapret® ECL liq c	DMDHEU, modified	oo	oooo	<75 ppm	...	..	.		...	.	.	.	
Fixapret® ECO liq c	DMDHEU, modified	oo	ooo	<75 ppm	...	..	.		...	.	.	.	
Fixapret® F-ECO liq	DMDHEU, modified	ooo	o	<75 ppm	...	..	.		...	.	.	.	
Fixapret® NEC Plus liq c	DMDHEU, modified	ooo	oooo	<75 ppm	...	..	.		...	.	.	.	
Fixapret® AP liq c/ F-AP liq	DMDHEU, modified suitable for low temperature curing	ooo	o	<75 ppm	...	..	.		...	.	.	.	
Fixapret® PC liq	DMDHEU, modified pre-catalyzed, methanol-free	oo	ooo	<75 ppm	...	..	..		...	.	.	.	
Fixapret® ELF liq c	DMDHEU, modified, very well suitable for low temerature curing ultra-low formaldehyde	oo	o	<50 ppm	...	...	...		...	.	.	.	

\*2 If washed after curing in the recommended way

PRODUCT	USE
RESIN CATALYSTS	
Catalyst NKB liq	DMDHEU-type
Catalyst NKC liq	DMDHEU-type (also suitable for melamines)
Catalyst NKS liq	DMDHEU-type (also recommended with Arkofix® NZW)
Catalyst FF liq	for all Arkofix® products
Catalyst F-M liq	DMDHEU-type
Catalyst MC1 liq	Catalyst for Moist Cure
Catalyst MC liq	Catalyst for Moist Cure

LEGEND			
oooo	Very high	.	Suitable
ooo	High	..	Recommended
oo	Medium	...	Highly recommended
o	Low	*3	If used in the Moist Cure process chlorine resistance becomes poorer

\*Below limits of detection according to industry standard test methods

- > Spotlight on **HOTEL GRADE**, a formaldehyde-free\* system that redefines easy care for bed linen and fabrics, with wrinkle control, hygiene, and long lasting; that protects you and the environment
- > Spotlight on **CRISP & FRESH**, a biocide-free and formaldehyde-free\* system that redefines easy care for bed sheets, with wrinkle control and durable freshness, whilst protect you and the environment

# MOISTURE MANAGEMENT AND ANTIMICROBIAL PROTECTION: HYDROPERM® AND SANITIZED®<sup>1</sup>

No matter what they are doing, consumers expect their clothes to feel comfortable at all times. Archroma's Hydroperm®-based moisture management system supplies wash-resistant hydrophilic properties for fibers of all kinds. Fabrics dry quicker, wick moisture away from the skin and stay soft and breathable even when the wearer is involved in high-intensity sport activities.

These benefits can be combined with the Sanitized® hygiene function for enhanced freshness. The Sanitized® Odor Control Function reduces the deposit of odor components thereby making garments more comfortable to wear. Depending on the chosen Sanitized® product we can effectively reduce and prevent the multiplication of bacteria, mold and mildew, algae and dust mites – the cause of undesirable odors, staining and material fatigue.



PRODUCT	PRODUCT PROPERTIES	APPLICATION							FIBER TYPE				
	Brief description	Ionicity	White	Hydrophilic	Permanence	Pad	Coating	Exhaust	Jet	Cellulosic	PES	PA	Wool
SMELL ADSORBENT FINISHES / ANTI-ADHERANCE													
OA10	Smell adsorbent, anti-adherance, <b>Non-biocidal</b>	N	...	ooo	ooo	...	..	.		..	...	...	
ANTIMICROBIAL FINISHES / ANTI-DUST MITE / ANTI-MOSQUITO													
Sanitized® T 99-19/ T 20-19	Durable antimicrobial finish for textiles made of cellulosic fibres	C	..		ooo	...		...	...	...	.	.	..
Sanitized® T 27-22 Silver	Silver based antimicrobial product for multiple applications	N/(A)	...	oo	ooo	...	..	..	..	...	...	...	
Sanitized® T 11-15	Silver based antimicrobial product for multiple applications	(A)	...	oo	ooo	...	...	...	..	..	...	...	
Sanitized® TH 14-14	Hygienic finish for textiles, antibacterial and mildew resistant	C	..	oo	o	...	...			...	...	...	..
Sanitized® TH 15-14	Hygienic finish for textiles, antibacterial and mildew resistant	C	..	oo	o	...	...			...	...	...	..
Sanitized® TH 22-27	Hygienic finish for textiles, antibacterial and mildew resistant	(A)	.	oo	ooo <sup>*4</sup>	...		...	...	.	...	...	...
Sanitized® TH 26-11	Hygienic finish for technical textiles, antibacterial, mildew- and rot-proof	N	...	oo	o	...	...	.		...	...	...	...
Sanitized® TH 27-24	Hygienic finish for textiles, antibacterial and mildew resistant	A	.	oo	ooo <sup>*4</sup>	...	...	...	...	.	...	...	...
Sanitized® AM 23-24	Mosquito and dustmite protection, wash-permanent when suitable binder is added	N	...	oo	ooo	...	..			...	.	.	..
Sanitized® TPL 27-42	Antimicrobial protection for solvent PUR coating	N	.	o	oo		...			.	...	...	
ANTIMICROBIAL FINISHES BASED ON NATURAL ANTIMICROBIAL AGENTS													
Sanitized® Mintactiv 50	Durable antimicrobial finish for textiles made of cellulosic fibres	(C)	..		ooo	...		...	...	...	.	.	..

PRODUCT PROPERTIES		APPLICATION							FIBER TYPE				
PRODUCT	Brief description	Ionicity	White	Hydrophilic	Permanence	Pad	Coating	Exhaust	Jet	Cellulosic	PES	PA	Wool
MOISTURE MANAGEMENT													
Hydroperm® HV liq	Hydrophilizing silicone, microemulsion	N	...	ooo	o	...	..			..		...	.
Hydroperm® RPU New liq c	Thermoreactive polyurethane, for permanent hydrophilic finish of sportswear	N	...	ooo	ooo	...				...		...	...
Hydroperm® SRHA liq	Product for soil release and moisture management finishes with antistatic properties	N	...	ooo	ooo	...		...	...	..	...	..	..
Hydroperm® APA liq	Polyamide derivate, for durable hydrophilic finish	N	...	ooo	ooo	...		...	..	..	..	...	..
Hydroperm® T liq	Product for soil release and moisture management finishes with antistatic properties	N	...	ooo	ooo	...		...	...	..	...	..	..

LEGEND	
ooo	Excellent
oo	Good
o	Reasonable
.	Suitable
..	Recommended
...	Highly recommended
C	Cationic
(C)	Weakly cationic
N	Non-ionic
A	Anionic
(A)	Weakly anionic
<sup>*4</sup>	If applied by exhaust on PES and PA

> Spotlight on **ODOR CONTROL 2.0**, a system for odor-free sportswear where permastink cannot build up on your favorite clothes, that's applicable on polyester, cotton and nylon

> Spotlight on **HYDRY 2.0**, a complete system for your exercise regime that keeps you and your gear dry and fresh for longer

Discover more information about highest protection levels against the SARS-CoV-2 in our [PASSION FOR HYGIENE & PROTECTION brochure](#).



OUTSTANDING SOFTNESS:  
SOLUSOFT®, CERALUBE®, SILIGEN®  
AND OTHERS

Garments are known as tactile fabrics because they are pleasant to feel and touch. They give us a sense of well-being and protection. At the final stage of textile processing – finishing – we give the garment the “extra handle” or “magic softness touch”. Archroma manufactures a wide range of permanent and non-permanent softeners for every need.

These softeners not only make your garments feel good but also include other value-added benefits such as good sewability, hydrophilicity and significantly lower chances of tearing as well as the various improvements listed in the product table.

> Spotlight on [EARTH SOFT](#), a complete system for your exercise regime that keeps you and your gear dry and fresh for longer.



PRODUCT	PRODUCT PROPERTIES				APPLICATION			FIBER TYPE				
	Brief description	Ionicity	White	Hydrophilic	Antistatic	Pad	Exhaust	Jet	Cellulosic	PES	PA	Wool
SILICONE SOFTENERS – HYDROPHILIC												
Siligen® EH1 liq	Super-soft, hydrophilic silicone, jet stable, for all hydrophilic finishes, it is partly based on biomass products	N	...	ooo		...	...	..	...	..	...	..
Siligen® SHC New liq hc	High concentrated hydrophilic silicone for finishing terrycloth goods and bath towels	N	...	ooo		...	..		...	..	...	..
Siligen® MIH liq	Economical hydrophilic silicone for finishing terrycloth goods, bath towels, etc.	(C)	...	ooo		...	..	.	...	..	...	..
Siligen® SIH liq	Super-soft, hydrophilic silicone, jet stable, for all hydrophilic finishes	N	...	ooo		...	...	..	...	..	...	..
Siligen® SIH-S New liq	Super-soft, hydrophilic macro-emulsion silicone, jet stable, for all hydrophilic finishes	N	...	ooo		...	..	.	...	..	...	..
SILICONE SOFTENERS												
Solusoft® ACN liq	Amino-modified silicone elastomer, macroemulsion, “Cashmere”-handle	(C)	.			...	.		...	...	...	...
Solusoft® FE liq	Modified silicone elastomer, macro-emulsion, best softener for pigment prints	N	...			...			...	...	...	...
Solusoft® NMW liq c Solusoft® MW liq c	Silicone elastomer, microemulsion, stable in a wide pH-range	N	...			...	.		...	...	...	...
Solusoft® NUP liq	Modified silicone elastomer, macro-emulsion	N	...			...			...	...	...	...
Solusoft® SE1 oil liq	Silicone fluid for hydrophilic finishes	(C)	..	oo		...	.		...	..	...	...
Solusoft® WA liq	Amino-modified silicone elastomer, semi-macroemulsion	C	.			...	.		...	...	...	...
FATTY ACID SOFTENERS												
Leomin® AFK gr hc	Granulates softener soluble in hot water	C	.			..	...		...	..	..	..
Cepreton® UH p	Granulates softener soluble in hot water	C				..	...		...	..	..	..
Cepreton® UC New p	Granulates softener soluble in cold water	C				..	...		...	..	..	..
Cepreton® UN p	Granulates softener soluble in hot water	N	...			...	..		...	..	..	..



PRODUCT	PRODUCT PROPERTIES				APPLICATION			FIBER TYPE				
	Brief description	Ionicity	White	Hydrophilic	Antistatic	Pad	Exhaust	Jet	Cellulosic	PES	PA	Wool
POLYETHYLENE SOFTENERS/LUBRICANTS – SEWABILITY IMPROVERS												
Ceralube® ET liq	Sewability improver	D	..			...	...	.	...	..	..	..
Ceralube® JW liq	Jet-stable sewability improver, suitable for white goods	(C)	..	oo		..	...	...	...	...	...	..
Ceralube® OEW liq	Jet-stable softener and sewability improver for white and colored goods	(C)	..	o		...	...	...	...	..	..	..
Ceralube® PHD liq c	Concentrated softener and sewability improver, additive for resin finishes and fluorocarbon finishes	N/D	...			...			...	..	..	..
Ceralube® SVN liq	Thermostable, non-sublimating, very soft sewability improver	N/D	...	o		...	..		...	...	...	..
Ceralube® AKT New liq c	Raising assistant with antistatic effect	(C)	..		oo	...	.		...	...	...	..
Ceralube® PEP liq c	Concentrated softener and sewability improver, additive for resin finish	N	...	oo		...			...	..	..	..
Ceralube® F-PEB liq	Economical softener and sewability improver, additive for resin finish	N	...	o		...			...	..	..	..
YARN LUBRICANTS												
Ceralube® ET liq	Yarn finishing to lower friction coefficient	D	..				...	.	...	..	..	..
POLYURETHANE SOFTENERS												
Hydroperm® RPU New liq c	Thermoreactive polyurethane, for permanent hydrophilic finish of sportswear	N	...	ooo		...			...		...	...
Perapret® PU New liq	Polyurethane dispersion, antipilling, bulky handle, strength improver	A	..	o		...			...	.	..	.
SOFTENER FOR FLUOROCARBON FINISHES												
Ceralube® PHD liq c	Concentrated softener and sewability improver for fluorocarbon finishes	N/D	...			...			...	..	..	..
LEGEND												
(C)	Weakly cationic	A	Anionic		N	Non-ionic			..	Recommended	oo	Good
C	Cationic	D	Amphoteric		.	Suitable	ooo	Excellent	...	Highly recommended	o	Reasonable

STATE-OF-THE-ART REPELLENCY AND SOIL RELEASE: SMARTREPEL® AND NUVA®

Archroma’s Nuva® product line is based on a telomerization process to achieve modern stain management properties. Active protection refers to water, oil and alcohol repellency, and additionally includes chemical resistance, while passive protection refers to stain or soil release properties. During application, the fluorocarbon dispersion surrounds each fiber with an invisible protective film. This film is responsible for achieving the highest durability for clothing, for example, or excellent initial values for instance for disposable nonwovens.

The range is constantly updated to fulfil environmental regulations. The new generation of fluorocarbons, the Nuva®

N series, consists of products based on C6 chemistry. The N in the product name stands for: novel chemistry, non-detectable PFOA (below limit of detection), notable improvement in repellence, and non-sensitive in regard to compatibility with finishing chemicals. After several years of development, Archroma designed a completely new line of water repellent agents that are not based on fluorine: Smartrepel® Hydro. Their outstanding performance does not find an equivalent on the market – bringing together two major benefits that were unattainable until now: a nature-friendlier chemistry, together with long-lasting, efficient water repellency.



PRODUCT	PRODUCT / APPLICATION PROPERTIES								
	Ionicity	Water repellency	Oil repellency	Diesel repellency	Permanence	Oil based stain release	Water based stain repellence	Laundry air dry potential	Remarks
FLUORINE-FREE WATER REPELLENT									
Smartrepel® Hydro CMD liq	(C)	ooooo			oooo		oo	oo	Excellent wash durability on cotton
Smartrepel® Hydro SPK liq	(C)	ooooo						o	Excellent anti-wicking properties on synthetics
Smartrepel® Hydro TS liq	(C)	ooooo			oooo		oo	ooo	Excellent peel strength with PU coatings
Smartrepel® Hydro SR liq	(C)	ooooo			oooo		oooo	o	Stain repellent on synthetics and cotton
Smartrepel® Hydro LDS liq	(C)	ooooo			ooo		oo	ooooo	Very soft handle
NUVA® N – REPELLENCY, C6 PRODUCT RANGE, PFOA FREE*									
Nuva® N 2114 liq	(C)	ooooo	ooooo	ooooo	ooooo		oooo	ooo	PFOA free*, high performance
Nuva® N 2155 liq	N	ooooo	ooooo	ooooo	ooo		ooooo	ooo	PFOA free*, recommended for FR applications and fastness sensitive fabrics
Nuva® N 1811 liq	(C)	ooooo	oooo	ooo	oooo		ooo	o	PFOA free*, universal product with pleasant handle
Nuva® N 2116 liq	(C)	ooooo	ooooo	ooooo	ooo		ooooo	ooo	PFOA free*, high performance for technical textiles
Nuva® N 2159 liq	N	ooooo	ooooo	ooooo	ooo		oooo	oo	PFOA free*, recommended for high water column and fastness sensitive fabrics
Nuva® N 1802 liq	(C)	ooooo	oooo	ooo	oooo		ooo	o	PFOA free*, universal product with pleasant handle
NUVA® N – SOIL RELEASE, C6 PRODUCT RANGE, PFOA FREE*									
Nuva® N 4547 liq	(C)	oo	ooooo	oo	oooo	ooooo			PFOA free*, soil release agent
Nuva® N 4118 liq	(C)		o		oooo	ooo		ooo	PFOA free*, soil release agent with improved wicking abilities

APPLICATION FIELD												
Classical finishing	Home textiles	Awnings/ sunshades	Work wear/ protective clothing	Nonwovens for automotive industry	Technical textiles	Preimpregnation for coatings	Cellulose	Blends of cellulose and synthetics	PES	PA	Wool	Glass fiber
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LEGEND	
(C)	Weakly cationic
N	Non-ionic
ooooo	Very high
oooo	High
ooo	Medium
oo	Low
o	Very low
...	Especially recommended
..	Recommended
.	Suitable
*	Below limit of detection according to industry standard test methods

> Spotlight on RAIN AWAY, a durable water repellent system that protects your gear outdoors, whilst keeping you and the planet safe

Flash point for all products >100°C



ENHANCED STRENGTH, FLEXIBILITY AND DURABILITY: APPRETAN®, LURAPRET® AND TEXAPRET®

Our dispersions have been known and valued by customers for many years, whether in coating, spraying, foaming, lamination or impregnation.

In meeting today’s ecological challenges, our products are water-based and solvent-free, covering a variety of base polymers and different effects. Ranging from soft to hard, from elastic to rigid, from hydrophilic to hydrophobic, impermeable to breathable, they allow tailor-made solutions for customer-specific requirements.

The Appretan® E polymer series is our range of ultra-low formaldehyde polymer dispersions. Together with our Appretan® FF and Appretan® FFX these polymers are for the production of textiles that are expected to comply with the limit values of formaldehyde as defined by many labels as e.g. Oeko-Tex Standard 100.

Appretan® E and Appretan® FFX are self-crosslinking polymers to achieve a high level of performance in technical applications. Appretan® NTR partially bio-based polymers, a break-through coating binder range based on renewable natural ingredients for applications such as tea bags, coffee filters or capsules.



PRODUCT	TECHNICAL DATA								APPLICATION FIELDS							
	Solid content in %	TG in °C (glass transition temperature)	pH value	Viscosity in mPas	Ionicity	Self-crosslinking	Polymer base	Remarks	Nonwoven waddings	Nonwoven interlinings	Filters	Carriers for bitumen	Technical nonwoven	Woven carpets	Tufted carpets	Needle punch/felt

FORMALDEHYDE FREE PARTIALLY BASED ON RENEWABLE RAW MATERIALS ACRYLATE COPOLYMERS

Appretan® NTR 6304 liq	42	-10	3.5	◦	A	no		Biocide free		•	•		•		•	
Appretan® NTR 6553 liq	40	+15	3.0	◦◦	A	no		Biocide free			•	•	•			•

FORMALDEHYDE FREE\* ACRYLATE COPOLYMERS

Appretan® FF 2100 liq	60	-30	5.0	◦◦	A	no	AC	Self adhesive							•	•
Appretan® FFX 6270 liq	50	-13	7.0	◦	A	yes	ST/AC			•	•		•			•
Appretan® FF 6400 liq	50	0	7.0	◦	A	no	ST/AC			•				•	•	•
Appretan® FF 6500 liq	50	+10	8.0	◦	A	no	ST/AC			•			•			
Appretan® FF 6620 liq	50	+22	8.0	◦	A	no	ST/AC	High heat sealing properties			•		•			•
Appretan® FFX 6730 liq	50	+33	8.5	◦	A	yes	ST/AC	High adhesion, high abrasion resistance		•	•	•	•			
Appretan® FFX 2730 liq	50	+33	8.5	◦	A	yes	AC	Low HHV, high adhesion		•	•	•	•			
Appretan® FF 2110 liq	40	+70	7.5	◦	A	no	AC	stable film without crosslinker		•						

ULTRA LOW FORMALDEHYDE ACRYLATE COPOLYMERS

Appretan® E 6200 liq	50	-20	4.5	◦	A	yes	ST/AC			•			•			•
Appretan® E 4250 liq	50	-15	4.0	◦	A	yes	VA/AC			•	•		•			
Appretan® E 6400 liq	50	0	5.0	◦	A	yes	ST/AC			•	•		•			•
Appretan® E 6441 liq	50	+7	4.0	◦	A	yes	ST/AC			•	•		•			•
Appretan® E 6541 liq	50	+17	7.0	◦	A	yes	ST/AC			•	•		•		•	•
Appretan® E 6680 liq	50	+28	4.0	◦	A	yes	ST/AC			•	•	•	•			•
Appretan® E 6870 liq	50	+47	3.0	◦	A	yes	ST/AC				•		•			

Stiffening/filling agent	Upholstery, mattress ticking	Glass cloth/ wall covering, buildings	Awnings, linings	Roller-, vertical blinds	Tents, table, protective clothing	Lamination, self adhesive heat sealing	Molding shapes automotive	Technical textiles	Flocking	Fashion	Wipes	Hygiene	Wash&Dry cleaning resistance	Electrolytes stability	HF-Weldability
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> Spotlight on [NATURE BOUND](#), a compostable binder system for food filtration materials that protect you and the planet

LEGEND	
VA	Vinyl Acetate
AC	Acrylate
ST	Styrene
PU	Polyurethane
HHV	Higher heating value
DMDHEU	Dimethoxydihydroxyethylenurea
HFFR	Halogen free flame retardant
TEA	Triethanolamine
PES-PU	Polyester Polyurethane
PE-PU	Polyether Polyurethane
PC-PU	Polycarbonate Polyurethane
A	Anionic
N	Non-ionic
◦◦◦◦	High viscosity (>10'000 mPas)
◦◦◦	Viscous (2'000-10'000 mPas)
◦◦	Medium – low viscosity (300 -2'000 mPas)
◦	Low viscosity (<300 mPas)
•	Suitable
*	Below limit of detection according to industry standard test methods



PRODUCT	TECHNICAL DATA								APPLICATION FIELDS																											
	Solid content in %	TG in °C (glass transition temperature)	pH value	Viscosity in mPas	Ionicity	Self-crosslinking	Polymer base	Remarks	Nonwoven waddings	Nonwoven interlinings	Filters	Carriers for bitumen	Technical nonwoven	Woven carpets	Tufted carpets	Needle punch/felt	Stiffening/filling agent	Upholstery, mattress ticking	Glass cloth/ wall covering, buildings	Awnings, linings	Roller-, vertical blinds	Tents, table, protective clothing	Lamination, self adhesive heat sealing	Molding shapes automotive	Technical textiles	Flocking	Fashion	Wipes	Hygiene	Wash&Dry cleaning resistance	Electrolytes stability	HF-Weldability				
ACRYLATE COPOLYMERS																																				
Appretan® N 92100 liq	45	-30	5.0	○	A	yes	AC	High solvent resistance		•			•				•	•		•	•					•	•			•						
Appretan® N 96100 liq	50	-20	3.5	○	A	yes	ST/AC			•			•				•	•	•	•	•									•						
Appretan® NI liq	45	-20	4.0	○	N/A	yes	VA/AC	Compatibility to be pre-tested		•			•																	•						
Appretan® N 96101 liq	50	-17	3.0	○	A	yes	ST/AC			•	•				•	•		•	•	•	•					•				•						
Appretan® N 94101 liq	50	-15	4.0	○	A	yes	VA/AC			•			•					•	•									•		•						
Appretan® PL 10073 liq	50	-10	7.0	○	A	yes	ST/AC	High wetting properties, low migration profile		•	•		•		•	•		•	•	•	•									•						
Appretan® N 92111 liq	50	-8	5.5	○	A	yes	AC			•			•					•	•		•	•								•						
Appretan® N 92121 liq	50	+10	6.0	○	A	yes	AC		•	•	•			•				•	•		•	•								•						
Appretan® DS 703 liq	50	+24	2.5	○	A	yes	AC			•								•	•	•	•				•				•	•	•					
Appretan® N 92131 liq	50	+26	4.0	○	A	yes	AC		•	•								•	•	•	•									•						
Appretan® N 94121 liq	50	+27	5.0	○	A	yes	VA/AC		•	•	•			•				•	•	•	•							•		•						
Appretan® N 96131 liq	50	+28	4.0	○	A	yes	ST/AC			•		•	•			•	•	•	•	•	•		•							•						
Appretan® N 96131 SB liq	50	+28	2.5	○	A	yes	ST/AC	High tensile strength at high temperature				•	•	•					•					•						•						
Appretan® N 94151 liq	50	+38	4.0	○	A	yes	VA/AC	nonwoven and carpet back coating	•	•				•														•		•						
Appretan® PL 10070 liq	50	+44	7.0	○	A	yes	ST/AC	High wetting properties, low migration profile		•	•		•	•										•						•						
Appretan® N 92151 liq	50	+45	3.0	○	A	yes	AC		•	•	•		•					•	•	•	•									•						
Appretan® N 9616 liq	50	+47	4.0	○	A	yes	ST/AC			•	•	•	•											•						•						
VINYLACETATE HOMOPOLYMERS																																				
Appretan® MB Extra liq	55	+10	4.5	○○○	N	no	VA					•				•						•														
Appretan® TTL liq	50	+33	4.5	○○	N	no	VA	Low viscosity	•		•				•	•	•					•						•			•	•				
Appretan® TS liq	55	+33	4.5	○○○	N	no	VA		•		•			•				•				•														
Appretan® EM liq	50	+33	3.5	○○○○	N	no	VA							•									•													
ACRYLONITRILE/ACRYLATE COPOLYMERS																																				
Lurapret® FF 8250 liq	50	-15	4.5	○	A	no	AN/AC	Formaldehyde free, low tackiness		•	•				•							•		•	•	•	•									
Lurapret® DS 151 liq	50	-15	4.0	○	A	yes	AN/AC	Low tackiness		•	•		•											•	•	•	•			•						
Lurapret® D 579 liq	50	+7	5.0	○	A	yes	AN/AC		•	•								•	•	•	•				•	•				•	•	•				
Lurapret® D 550 liq	50	+13	5.0	○	A	yes	AN/AC		•	•								•	•	•	•				•	•				•	•					
Lurapret® D 888 liq	50	+31	8.0	○	A	yes	AN/AC		•	•								•							•					•						

- > Spotlight on [FILTER IT CLEAN](#), a formaldehyde-free\* and APEO-free\* bonding system that makes non-wovens strong and safe, even when wet
- > Spotlight on [RAG N’ROLL](#), a compostable binder system for nonwoven cleaning rags, that protect you and the planet
- > Spotlight on [TAKE A BREATH](#), an enhanced filtration system that keeps your air clean and fresh for longer putting health first and your competition behind

LEGEND	
VA	Vinyl Acetate
AC	Acrylate
ST	Styrene
PU	Polyurethane
PES-PU	Polyester Polyurethane
PE-PU	Polyether Polyurethane
PC-PU	Polycarbonate Polyurethane
A	Anionic
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○○○○	High viscosity (>10'000 mPas)
○○○	Viscous (2'000-10'000 mPas)
○○	Medium – low viscosity (300-2'000 mPas)
○	Low viscosity (<300 mPas)
•	Suitable
*	Below limit of detection according to industry standard test methods

PRODUCT	TECHNICAL DATA								APPLICATION FIELDS																											
	Solid content in %	TG in °C (glass transition temperature)	pH value	Viscosity in mPas	Ionicity	Self-crosslinking	Polymer base	Remarks	Nonwoven waddings	Nonwoven interlinings	Filters	Carriers for bitumen	Technical nonwoven	Woven carpets	Tufted carpets	Needle punch/felt	Stiffening/filling agent	Upholstery, mattress ticking	Glass cloth/ wall covering, buildings	Awnings, linings	Roller-, vertical blinds	Tents, table, protective clothing	Lamination, self adhesive heat sealing	Molding shapes automotive	Technical textiles	Flocking	Fashion	Wipes	Hygiene	Wash&Dry cleaning resistance	Electrolytes stability	HF-Weldability				
POLYURETHANES																																				
Lurapret® N 5112 liq	35	n.a.	8.0	◦	A	no	PE-PU	Soft, high water column			•						•		•			•								•						
Lurapret® N 5127 liq	40	n.a.	8.0	◦	A	no	PES-PU	Medium hard, good abrasion resistance								•						•	•							•						
Lurapret® N 5392 liq	60	n.a.	8.0	◦	A	no	PC-PU	Soft, very good UV resistance, TEA free			•		•						•	•	•	•								•						
Lurapret® N 5396 liq	35	n.a.	8.0	◦	A	no	PC-PU	Abrasion resistant, TEA free			•		•						•	•				•	•					•						
Lurapret® N 5357 liq	32	n.a.	8.0	◦	A	no	PES-PU	Breathable coating														•			•		•				•					
Lurapret® N 5657 liq	41	n.a.	5.5	◦	N	no	PES-PU	Acid stable, breathable coating														•		•	•		•				•					
Lurapret® N-DPS liq	40	n.a.	8.0	◦	A	no	PES-PU	High temperature resistance			•		•						•	•	•	•		•	•		•	•		•	•					
Lurapret® N 6076 liq	40	n.a.	8.0	◦	A	no	PES-PU	Medium soft			•								•	•	•	•		•			•			•	•					
Lurapret® N 6072 liq	37	n.a.	7.5	◦	A	no	PE-PU	Hard, tough elastic			•								•	•	•	•		•			•			•	•					
READY-TO-USE FORMULATIONS																																				
Texapret® BO-C liq	58	n.a.	8.0	◦	A	yes	AC/AN	Ready to use blackout compound											•	•				•												
Texapret® C 6050 liq	50	-20	9.0	◦	A	no	ST/AC	Digital printing					•						•					•	•											
Texapret® CF 8011 liq	50	-40	5.0	◦◦◦	A	yes	AC/AN	HFFR compound for automotive seat cover										•						•						•						
Texapret® D-AK liq	45		8.0	◦	A	no	PES/PU	Low softening point, for yarn coating										•						•												

PRODUCT	Chemistry	Rheological behavior	Ionicity	Comments
ACRYLIC THICKENERS				
Appretan® Thickener 2710 liq	Fully neutralized inverse thickener	Short	A	Yellowish, viscous. Highly efficient with an excellent electrolyte stability.
Appretan® Thickener 3308 liq	Partially neutralized inverse thickener	Short	A	Yellowish, slightly viscous. Fairly efficient with a good electrolyte stability.



/ HIGH PERFORMANCE SHAPE STABILIZATION:  
CASSURIT®

In order to provide moldings, filters or sailcloth, durable resilience properties, the textile industry uses melamine-based crosslinkers. These resins give temperature-independent duroplastic effects resulting in water-insoluble, thermostable hardening, which provides dimensional stability for temperatures up to 180° F (100° C) and above.

Our Cassurit® crosslinkers are able to maintain a glossy or mechanically modified surface and also improve durability in setting and molding of nonwoven, as well as stiffening of technical textiles. They are also employed as an additive to improve durability when used as a fixing agent for polymer dispersions, reactive flame retardants or in combination with fluorocarbons for permanent water and oil-repellent applications, as well as to improve water column properties.



PRODUCT	AQUEOUS, ETHERIFIED MELAMINE CROSSLINKER				NONWOVEN BONDING				TEXTILE FINISHING				TEXTILE COATING					
	Ionicity	pH value	Dry substance in (%)	Free formaldehyde in (%)	Film hardness	Reactivity	Stability	Mechanical and needle-punched	Insulating material for automotive	Fixing agent for fluorocarbons and polymer dispersions	Filling and stiffening agent for technical fabrics	Glass cloth; building sector	Rubber tapes (fabrics); ribbon fabrics	Sailcloth	Tents, awnings	Acoustic parts, moldings for vehicles	Cable coverings, tire cord	Emery cloth
HIGHLY ETHERIFIED																		
Cassurit® LFC liq	N	8.5 - 10.5	50	<0,1	○	low	high			•								
Cassurit® MFB liq	N	8.5 - 10.5	50	<0.3	○	low	high			•					•			
PARTLY ETHERIFIED																		
Cassurit® HH liq	N	9.0 - 10.0	72	<0.5	○○○	high	low-medium	•	•		•		•	•			•	•
Cassurit® STM liq	N	9.5 - 10.5	75	<0.5	○○○	high	low-medium	•	•		•		•	•			•	•

use

CATALYSTS	
Catalyst CR liq	UF & MF – type

**LEGEND**

N	Non-ionic
○○○○	Very hard
○○○	Hard
○○	Medium
○	Soft
•	Suitable

ECO-ADVANCED FLAME RETARDANCE:  
PEKOFLAM®

Nowadays textiles are often created from multiple raw materials with huge impact on their flammability properties. Plus, they are present in almost any environment we are exposed to – either during sleep, work or travel.

With processors and consumers expecting sustainable solutions these days, related chemistries also have to match significantly higher ecological requirements compared to conditions applicable just a few decades ago.

Archroma responds to these needs with a range of products which comply with major eco-labels and restricted substances lists and restricts its core technologies to **halogen and antimony free chemistries**.

PRODUCT	APPLICATION PROPERTIES		APPLICATION FIELD					FIBER TYPE							
	Non-durable	Semi-durable <sup>*5</sup>	Durable	Protective wear	Automotive	Home/decorative textiles	Construction & building	Carpet	Cotton	Viscose	Wool	Blends with synthetics	Polyester	Other synthetics (PA/PP)	Oeko-Tex listing
LIQUID GRADES															
Pekoflam® HSD liq		◦				•	•	•	••	••	•	•		•	
Pekoflam® MSP liq		◦				••		•	••	•	•	•			yes
Pekoflam® OP liq	◦				•	•			••		•	•		•	
Pekoflam® THA liq	◦				•	•	•				•	••	••		
Pekoflam® PES liq c new			◦			••		•					••	•	yes
Pekoflam® TC 950 liq		(◦)			••	••		•					••	•	yes
POWDER GRADES															
Pekoflam® STC p		(◦)			••								••		yes
Pekoflam® TC 203 p		(◦)				•	•	•	•			•			
Pekoflam® TC 503 p		(◦)				••	•		•	•	•	••	•	•	yes

Pekoflam® PES liq c new is currently not REACH registered for Europe

LEGEND	
*5	Resistance to water soaking according to BS EN 1021
•	Suitable
••	Recommended
(◦)	Depending on binder system

> Spotlight on [SAFE SEATS 2.0](#), a modular surface treatment system for seating materials that protects you anytime

FINISHING SPECIALTIES AND COATING ADDITIVES:  
ARKOPHOB®, FLUOWET® AND OTHERS

Archroma is well known as a system supplier for the whole textile chain, specializing in solutions that include application technology as well as effect optimization with approved systems rather than focusing on single products.

For optimized technical solutions, Archroma has just the right additives to make your life that much easier.

With a variety of additives, you can achieve specific effects such as antislipage, antistatic, protection against phenolic or thermic yellowing. Also possible are handle modifications as well as specific surface adaptations.

PRODUCT PROPERTIES		
PRODUCT	Brief description	Ionicity
SPECIAL CROSSLINKERS		
Arkophob® DAN New liq	Formaldehyde-free crosslinking agent (polyfunctional isocyanate X-linker, blocked), requires thermal activation	N
Arkophob® XLR liq	Polyfunctional isocyanate X-linker, unblocked (in aqueous medium the product has only limited shelf life)	N
HYDROPHOBIC AGENTS FOR TECHNICAL TEXTILES		
Arkophob® NPK liq	Non-durable water-repellent agent	C
Arkophob® EX liq	Paraffine wax based non-durable water-repellent agent	C
WETTING AGENTS		
Kieralon® MRN liq c	Efficient wetting agent with non-rewetting properties, highly concentrated	N
Imerol® JET-B liq c	Mixture of nonionic surfactants, low foaming wetting agent and system stabilizer	N
Fluowet® UD liq	Wetting agent for fluorocarbons with non-rewetting properties	N
FOAMING AGENTS		
Kieralon® SAS 30 liq	Economic foaming and wetting agent, hydrophilic	A
Afilan® AS-OS1 liq	Efficient foaming and wetting agent	A
ANTI-FOAMING AGENTS		
Antimussol® UDF liq	Economical and efficient defoamer, mineral oil free	N
SYSTEM STABILIZER		
Fluowet® STAB new liq	Reduces roller deposition problems in pad applications of fluorocarbons	C
Luprintol Emulsifier PE New liq	Emulsifier and stabilizer to enhance stability and running properties of coating pastes	N

LEGEND	
(C)	Weakly cationic
C	Cationic
N	Non-ionic
A	Anionic
D	Amphoteric
*	Below limit of detection according to industry standard test methods



/ FINISHING SPECIALTIES AND COATING ADDITIVES: DICOFIX®, ELFUGIN® AND OTHERS

	PRODUCT PROPERTIES	APPLICATION					FIBER TYPE					
PRODUCT	Brief description	Ionicity	White	Hydrophilic	Antistatic	Pad	Exhaust	Jet	Cellulosic	PES	PA	Wool
ANTI SLIP AGENTS												
Dicofix® SW liq c	Silicid acid dispersion, with low influence on handle	(C)	•	○		...			...	...	...	•
ANTISTATIC AGENTS												
Elfugin® AKT liq	Antistatic agent for synthetic fibers with anticorrosive effect	A	...	○○	○○○	...			..	...	...	..
ANTI MIGRATION AGENTS												
Perapret® FA liq	Anti migration agent, special additive in Color Fast Finish	N	...	○○		...			...	..	..	..
PHENOLIC YELLOWING PROTECTION												
Umidol® APY liq	Product to avoid phenolic yellowing	N	...			...	..	•	..	..	...	•
Umidol® NYX liq	Economical product to prevent phenolic yellowing	A	...			...	..	•	..	..	...	•
THERMIC YELLOWING PROTECTION												
Umidol® UW pwd	Specialty products to avoid thermic yellowing in pre-heatsetting, post-heatsetting and molding processes	N	...			...			•	•	...	•

LEGEND			
○○○	Excellent	C	Cationic
○○	Good	(C)	Weakly cationic
○	Reasonable	N	Non-ionic
•	Suitable	A	Anionic
..	Recommended	(A)	Weakly anionic
...	Highly recommended		

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[www.exteriortextiles.archroma.com](http://www.exteriortextiles.archroma.com)

...and our SYSTEMS SOLUTIONS for functional finishes



# FUNCTIONAL FINISHES SOLUTIONS

Archroma is a key player for high quality applications, requiring state-of-the-art special effects while ensuring safety and efficiency standards are maintained.

Nordic walking, running, and the wide range of new activities bring a renewed desire for sport clothes that are finished with highly functional products to support our active lives. Body climate control, breathable fabrics, moisture transport, soil and water repellent effects and

color fastness are just a few buzz-words consumers are using when looking at sports garments, combined with convenience, design trends and durability.

Archroma's wide portfolio of finishing products ranges from world-class sewability improvers, wider range of softening and full range of functionality systems for water-repellency and anti-microbial. All in one to help to create value in any end market.

## Protection

- Fluorine free water repellent **Smartrepel® Hydro**
- Repellency & soil release **Nuva® N**
- Water-based solvent-free polymers, including polymers with low or zero formaldehyde content for functional coating **Appretan® Lurapret® Texapret®**
- Flame retardant **Pekoflam®**
- Yellowing protection **Umidol®**
- Ready-to-apply FR coating compound solutions **Texapret® CF**
- Antiviral **Sanitized®**
- Antistatic **Elfugin® AKT liq**

## Odor management

- Antimicrobial hygiene function **Sanitized®**
- Odor neutralization **Sanitized® Odorex (OA10, OX20)**

## Softening

- Silicone softener **Solusoft®**
- Hydrophilic silicone softener **Siligen®**
- Fatty acid softener **Leomin® Cepreton® Ceranine®**
- Polyethylene softeners/lubricants **Ceralube®**
- Yarn lubricants **Ceralube® ET liq**
- Polyurethane softeners **Hydroperm® RPU New liq c Perapret® PU New liq**
- Softener for fluorocarbon finishes **Ceralube® PHD liq c**

## Moisture management & thermocontrol

- Moisture management **Hydroperm®**
- Cooling effects **coldblack®**

## Strength and flexibility

- Water-based solvent-free polymers, including polymers with low or zero formaldehyde content for dimensional stabilization and abrasion resistance **Appretan® Lurapret® Texapret®**
- Crease and shrink resistance **Arkofix® Fixapret® Catalyst**
- Shape stabilization **Cassurit®**

## Finishing specialties & coating additives

- Special crosslinkers **Arkophob®**
- Wetting agents **Kieralon® MRN liq c Fluowet® UD liq Imerol® JET-B liq c**
- Foaming agents **Kieralon® SAS 30 liq Afilan®**
- Anti-foaming **Antimussol® UDF liq**
- System stabilizer **Fluowet®**
- Antislip **Dicofix® SW liq c**

# THE ARCHROMA WAY TO A SUSTAINABLE WORLD

**Safe, efficient, enhanced. It's our nature.**

**Safe – It's our nature to protect.**

A solid core:

Our deeply rooted goal to protect people and our planet. Safe to use, safe to release and also safe to wear.

**Efficient – It's our nature to rethink sustainable manufacturing.**

Innovating application processes that minimize resources and maximize productivity, both in our and our customers' manufacturing as well as by setting ourselves ambitious sustainability goals.

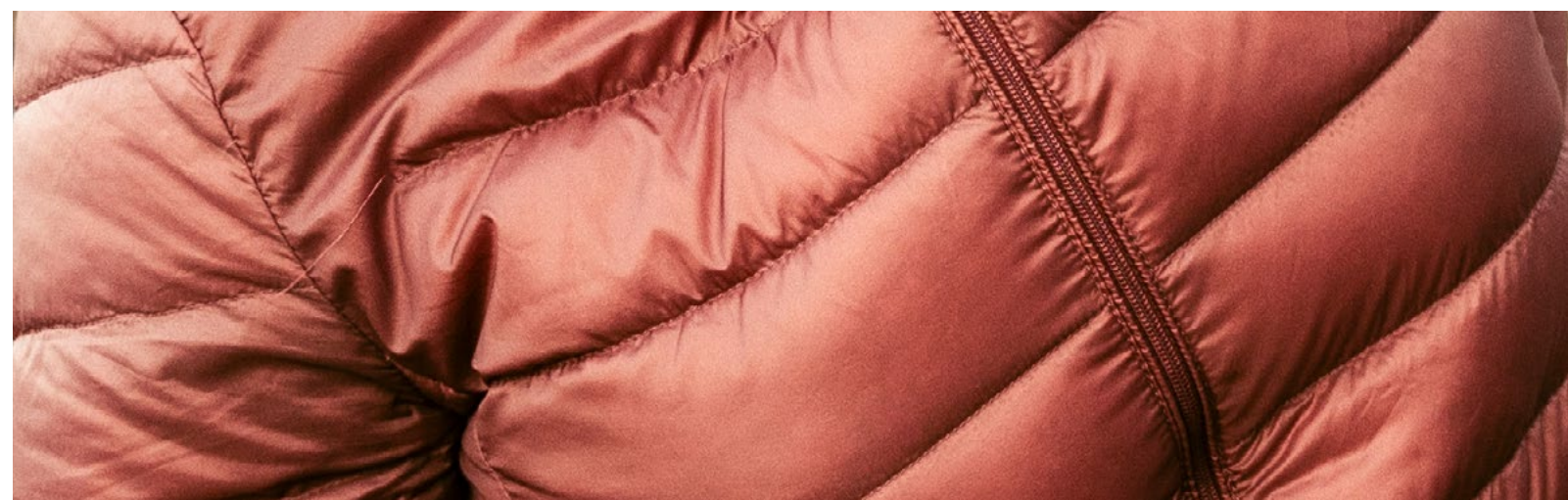
**Enhanced – It's our nature to add another level of value.**

Innovation is critical. With it, we create additional effects, functionalities and aesthetics and sustainable differentiation to bring additional value, helping consumers to achieve their goals, for a life enhanced.



Ask your Archroma representative for additional information on our solution systems

\*below limits of detection according to industry standard test methods





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**COMPETENCE CENTER FINISHING & REPELLENTS**

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Switzerland

**BRAND & PERFORMANCE TEXTILE SPECIALTIES**

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1 International Business Park  
#06-01 The Synergy  
609917 Singapore

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