



**PASSION FOR
EXTERIOR TEXTILES**

Best-in-class innovations,
applications and system solutions



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

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, dyeing and finishing.



At Archroma, **we share your passion for exterior textiles**, 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, cellulose, 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 compliant by some of the most important eco-standards, such as:

- bluesign®
- Oeko-Tex®
- GOTS
- ZDHC
- REACH
- EU Ecolabel
- C2C
- RSL
- MRSL

/ SPINNING & SIZING

Flexibility on demand

At the beginning of the textile chain, Archroma's spin finishes provide outstanding processing performance for all kinds of filaments and fibers. We combine our chemistry knowledge and yarn manufacturing experience to develop our high performance and innovative **spin finishes and sizing systems**, aimed at answering the specific demands of our customers.

Archroma's spinning agents

- Spin finish **Afilan®**
- Softeners, lubricants and antistatic agents **Leomin®**

Our sophisticated expert laboratories, customer service and support are invaluable assets for long-term co-operation and partnerships. High ecological and toxicological internal standards give our customers the confidence to obtain spin finish products of highest safety levels.

Archroma's sizing agents

- Sizing agent **Arkofil®**
- Additives **Trefix®**

/ PRETREATMENT & OBA

Preparation for peace of mind

An old saying states that "well prepared is half dyed". Pretreatment is indeed a key step in textile production. The diversity of fibers and quality variations are major challenges in consistently obtaining a perfectly prepared fabric, ready for the next processing steps.

Based on decades of experience, a worldwide presence and strong relations with machine manufacturers, Archroma is in the position to provide robust pretreatment and optical brightening systems for every type of fiber and their blends, optimized for your specific set-up.

With Archroma optical brightening agents (OBA), you get the whiteness and the shade that you need, with high fastness level.

Archroma's pretreatment & OBA agents

- Antifoam agent **Antimussol® HT2S liq**
- Dispersing & sequestering agents **Lufibrol® MSD liq**
- OBA for PES
 - Ultraphor® ERE liq** (neutral reddish)
 - Ultraphor® EREN liq** (bluish violet)
 - Ultraphor® HF liq** (neutral reddish)
 - Ultraphor® HFN liq** (red violet)
 - Ultraphor® ETB liq** (neutral bluish)
 - Ultraphor® ETBN liq** (bluish)
- Wetting, Deaerating agent **Leonil® EHC liq c**
- Detergents
 - Imerol® PCLF liq**
 - Kieralon® F-MFB liq**

Our polyester exterior textiles solutions have been developed to withstand the **highest light and hot-light-fastness** requirements. These properties ensure high color consistency – giving maximum flexibility – retaining light fastness and color.

Dorospers® A & K dyes because of their excellent fastness to light and weathering are recommended for the exhaust dyeing of polyester exterior textiles. The addition of suitable UV absorbers from the Fadex® range improves light fastness consistency and the tear strength of the polyester fiber.



Archroma's dyestuff range

Dorospers® K dyes

- Highest light and hot-light-fastness
- State-of-the-art dispersability and dispersion stability
- Very high reproducibility

- Dorospers® Yellow K-HM 150
- Dorospers® Yellow K-RL 150
- Dorospers® Yellow K-RSG
- Dorospers® Yellow Brown K-MR
- Dorospers® Orange K-R
- Dorospers® Brown K-3LG
- Dorospers® Brown K-3LR
- Dorospers® Red K-AS
- Dorospers® Red K-RR
- Dorospers® Red K-LR New
- Dorospers® Brill Blue K-2G
- Dorospers® Blue K-LB 150
- Dorospers® Blue K-GLFN 150
- Dorospers® Navy Blue K-LN
- Dorospers® Black K-LNF
- Dorospers® Black K-JE
- Dorospers® Black K-LSF

Dorospers® A dyes

- State-of-the-art dispersability and dispersion stability
- Very high reproducibility
- Medium to high hot-light-fastness requirements

- Dorospers® Yellow A-GLW c
- Dorospers® Golden Yellow A-R
- Dorospers® Red AS-3L
- Dorospers® Blue AS-3L
- Dorospers® Blue A-BLF 150
- Dorospers® Blue A-BGF 150
- Dorospers® Navy Blue A-LF
- Dorospers® Navy Blue AS-3L
- Dorospers® Black A-CLF
- Dorospers® Black AS-3LF

Archroma is a recognized leader in **integrated solutions for dyeing**. Our portfolio includes systems designed to answer the specific requirements of all types of synthetic and blend fibers.

Archroma's dyeing auxiliaries

- Antifoam agent
Antimussol® HT2S liq
- Wetting, deaerating agent
Leonil® EHC liq c
- Lubricant
Imacol® MPE liq
Imacol® X-JET liq
- Dystuff protection agent
Revatol® AR liq
- Dispersing agent
Lyocol® PRDN liq
Lyocol® RDN liq
- Levelling/dispersing
Eganal® DFT liq
Eganal® X-ACT liq
Lyogen® P liq c
- Diffusion accelerator
Dilatin® POE liq
- Acid buffer
Opticid® PB liq
Opticid® PSD liq
- Alkaline buffer
Lyocol® ELD New liq
- Oligomer dispersing
Lyocol® POD liq
- Reductive clearing
Cyclanon® ECO Plus liq (acid)
Cyclanon® MCL liq (alkaline)
Ekalin® F liq
Cyclanon® MSA pwd (alkaline)
- Anti-migrating
Solidokoll® N liq
- Pick up improver
Solidokoll® DPR liq

Archroma's UV absorbers

Our Fadex® UV-absorbers provide high light-fastness to polyester exterior textiles.

- Benzotriazole based
Fadex® AKS liq
Fadex® F liq
Fadex® F liq c
- Benzophenone based
Fadex® ECS New liq
- Triazine based
Fadex® TR liq
Fadex® AS New liq



The coloration section of this brochure is focused on the fiber of wider application and use for exterior textiles PES. **Archroma has also a complete coloring solutions for CEL, PA and blend fabrics. Please ask your representative for additional information.**

The preferred choice for printing

Our wide portfolio of pigment printing preparations and auxiliaries, combined with a great selection of dyes, place Archroma in the position to offer complete printing solutions that obtain vibrant colors in most fields of textile printing applications.

Archroma's pigment printing

Printofix® Pigment preparations

- High standard of dispersion stability
- Low viscosity

Extremely high light fastness:

- **Printofix® Brill Yellow TF**
- **Printofix® Yellow TF**
- **Printofix® Brill Red TF**
- **Printofix® Blue TF**
- **Printofix® Green TF**
- **Printofix® Brown TF**

Additional elements:

- **Printofix® Pink T-E**
- **Printofix® Violet T-L**
- **Printofix® Blue T-K**
- **Printofix® Blue T-P**
- **Printofix® Navy T-V**
- **Printofix® Green T-X**
- **Printofix® Black T-M**

Auxiliaries

Printing binder:

- **Helizarin® SFT liq**
- **Helizarin® TOW Plus liq**

Printing thickeners:

- **Lutexal® HIT Plus**
- **Lutexal® CSFN liq**

Printing fixing agent:

- **Luprintol® Fixing Agent SE liq**
- **Luprintol® Fixing Agent SF liq**

Printing softeners:

- **Luprintol® Soft VSN liq**
- **Luprintol® Soft SIG liq**

Printing specials:

- **Luprintol® Emulsifier PE New liq**
- **Luprintol® Additive RM01 liq**

Archroma's disperse printing

Dorosers® K

- Highest light-fastness and hot-light-fastness
- State-of-the-art dispersability and dispersion stability
- Very high reproducibility

See complete range in the dyeing section

Auxiliaries

Anti-foaming:
Antimussol® UDF

Acid donor:
Opticid® PB

Dispersing agent:
Lyocol® RDN

Fixation improver:
Printogen Enhancer BC

Synthetic thickener:
Lutexal® DRA

Washing-off agent:
Eganal® DFT

Reduction clearance:
Ladipur® MCL

Innovative and tailor-made solutions

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

Archroma's wide portfolio of finishing products such as water-repellent, soil release, anti-microbial, polymers, flame retardant and high abrasion resistance finishes are applied to these special articles to fulfil all the technological requirements and add value.

The Archroma polymers for coating are water-based solvent free and do not contain di-methylformamide (DMF) nor any other organic solvents. Thus, we offer systems for eco-advanced fabric production whilst meeting the latest ecological requirements. This means a final product safer for the consumer.

Archroma's exterior textiles solutions

- Protection against liquids, soils, odor formation, and flames
Smartrepel® Hydro
Nuva®N
NanoSphere®
Sanitized®
Pekoflam®
Elfugin®
- Enhanced comfort, abrasion resistance & softening
Ceralube®
Solusoft®
Siligen®
Cepreton®
- Thermo-control and cooling effects
Hydroperm®
coldblack®*
- Water-based solvent-free polymers for functional coating and dimensional stabilization
Appretan®
Lurapret®
Texapret®
- Ready-to-apply FR coating compound solutions
Texapret® CF
- Structural stabilization
Arkofix®
Fixapret®
Cassurit®



Discover more information in our "Functional Finishing" brochure.

Check our latest updates at
www.exteriortextiles.archroma.com



Spinning agents

- Afilan®
- Leomin®

Sizing agents

- Arkofil®

Additives

- Trefix®

Global core

- Antifoam agent:**
- Antimussol® HT2S liq
- Wetting, deaerating agent:**
- Leonil® EHC liq c
- OBA for PES:**
- Ultraphor® ERE liq (neutral reddish)
 - Ultraphor® EREN liq (bluish violet)
 - Ultraphor® HF liq (neutral reddish)
 - Ultraphor® HFN liq (red violet)
 - Ultraphor® ETB liq (neutral bluish)
 - Ultraphor® ETBN liq (bluish)
- Dispersing & sequestering agent:**
- Lufibrol® MSD liq
- Detergents:**
- Imerol® PCLF liq
 - Kieralon® F-MFB liq

ARCHROMA EXTERIOR TEXTILES PORTFOLIO

Performance and finishing solutions

Protection	Moisture management & thermocontrol	Strength, flexibility & shape stabilization	Softening	Finishing specialties & additives
<p>Fluorine free water repellent:</p> <ul style="list-style-type: none"> • Smartrepel® Hydro <p>Repellency & soil release:</p> <ul style="list-style-type: none"> • Nuva® N <p>Water-based solvent-free polymers, for functional coating:</p> <ul style="list-style-type: none"> • Appretan® • Lurapret® • Texapret® <p>Flame retardant:</p> <ul style="list-style-type: none"> • Pekoflam® <p>Ready-to-apply FR coating compound solutions:</p> <ul style="list-style-type: none"> • Texapret® CF <p>Antimicrobial & antimosquito protection:</p> <ul style="list-style-type: none"> • Sanitized® <p>Antistatic:</p> <ul style="list-style-type: none"> • Elfugin® AKT liq 	<p>Moisture management:</p> <ul style="list-style-type: none"> • Hydroperm® <p>Cooling effects:</p> <ul style="list-style-type: none"> • coldblack® 	<p>Water-based solvent-free polymers, for dimensional stabilization and abrasion resistance:</p> <ul style="list-style-type: none"> • Appretan® • Lurapret® <p>Shape stabilization:</p> <ul style="list-style-type: none"> • Cassurit® <p>Crease and shrink resistance:</p> <ul style="list-style-type: none"> • Arkofix® • Fixapret® 	<p>Silicone softener:</p> <ul style="list-style-type: none"> • Solusoft <p>Hydrophilic silicone softener:</p> <ul style="list-style-type: none"> • Siligen® <p>Fatty acid softeners:</p> <ul style="list-style-type: none"> • Leomin® • Cepreton® <p>Polyethylene softeners/lubricants:</p> <ul style="list-style-type: none"> • Ceralube® • Destofil® LC liq • Ceralube® ET liq <p>Polyurethane softeners:</p> <ul style="list-style-type: none"> • Perapret <p>Softener for fluorocarbon finishes:</p> <ul style="list-style-type: none"> • Ceralube® PHD liq c 	<p>Special crosslinkers:</p> <ul style="list-style-type: none"> • Arkophob® <p>Hydrophobic agent for technical textiles:</p> <ul style="list-style-type: none"> • Arkophob® NPK liq <p>Wetting agents:</p> <ul style="list-style-type: none"> • Kieralon® MRZ liq • Fluowet® UD liq • Imerol® JET-B liq c <p>Foaming agents:</p> <ul style="list-style-type: none"> • Kieralon® SAS 30 liq • Afilan® <p>Anti-Foaming agents:</p> <ul style="list-style-type: none"> • Antimussol® UDF liq <p>System stabilizer:</p> <ul style="list-style-type: none"> • Fluowet® <p>Yellowing protection:</p> <ul style="list-style-type: none"> • Umidol® <p>Antislip:</p> <ul style="list-style-type: none"> • Dicofix® SW liq c

Printing PES

Pigment preparations	Printing auxiliaries	Disperse dyes	Printing auxiliaries
<p>Printofix® range</p> <ul style="list-style-type: none"> - High standard of dispersion stability - Low viscosity <p>Extremely high light fastness:</p> <ul style="list-style-type: none"> • Printofix® Brill Yellow TF • Printofix® Yellow TF • Printofix® Brill Red TF • Printofix® Blue TF • Printofix® Green TF • Printofix® Brown TF <p>Additional elements:</p> <ul style="list-style-type: none"> • Printofix® Pink T-E • Printofix® Violet T-L • Printofix® Blue T-K • Printofix® Blue T-P • Printofix® Navy T-V • Printofix® Green T-X • Printofix® Black T-M 	<p>Printing binder:</p> <ul style="list-style-type: none"> • Helizarin® SFT liq • Helizarin® TOW Plus liq <p>Printing thickeners:</p> <ul style="list-style-type: none"> • Lutexal® HIT Plus • Lutexal® CSFN liq <p>Printing fixing agent:</p> <ul style="list-style-type: none"> • Luprintol® Fixing Agent SE liq • Luprintol® Fixing Agent SF liq 	<p>Dorospers® K range</p> <p><i>Highest light-fastness and hot-light-fastness:</i></p> <ul style="list-style-type: none"> - State-of-the-art dispersability and dispersion stability - Very high reproducibility 	<p>Printing auxiliaries:</p> <ul style="list-style-type: none"> • Luprintol® Soft VSN liq • Luprintol® Soft SIG liq <p>Printing softeners:</p> <ul style="list-style-type: none"> • Luprintol® Soft VSN liq • Luprintol® Soft SIG liq <p>Printing specials:</p> <ul style="list-style-type: none"> • Luprintol® Emulsifier PE New liq • Luprintol® Additive RM01 liq

Exhaust Dyeing PES

Dyestuffs	Dyeing auxiliaries	UV absorber
<p>Dorospers® K dyes</p> <ul style="list-style-type: none"> - Global core - Highest light-fastness and hot-light-fastness - State-of-the-art dispersability and dispersion stability - Very high reproducibility <ul style="list-style-type: none"> • Dorospers® Yellow K-HM 150 • Dorospers® Yellow K-RL 150 • Dorospers® Yellow K-RSG • Dorospers® Yellow Brown K-MR • Dorospers® Orange K-R • Dorospers® Brown K-3LG • Dorospers® Brown K-3LR • Dorospers® Red K-AS • Dorospers® Red K-RR • Dorospers® Red K-LR New <ul style="list-style-type: none"> • Dorospers® Brill Blue K-2G • Dorospers® Blue K-LB 150 • Dorospers® Blue K-GLFN 150 • Dorospers® Navy Blue K-LN • Dorospers® Black K-LNF • Dorospers® Black K-JE • Dorospers® Black K-LSF 	<p>Dorospers® A dyes</p> <ul style="list-style-type: none"> - Global additional range to Dorospers® K dyes - State-of-the-art dispersability and dispersion stability - Very high reproducibility <ul style="list-style-type: none"> • Dorospers® Yellow A-GLW c • Dorospers® Yellow A-LSR • Dorospers® Golden Yellow A-R • Dorospers® Red AS-3L • Dorospers® Violet A-BLZ • Dorospers® Blue AS-3L • Dorospers® Blue A-CMR • Dorospers® Blue A-BLF 150 • Dorospers® Blue A-BGF 150 • Dorospers® Navy Blue A-LF <ul style="list-style-type: none"> • Dorospers® Navy AS-3L • Dorospers® Black A-CLF • Dorospers® Black AS-3LF 	<p>Dyeing auxiliaries:</p> <p>Antifoam agent:</p> <ul style="list-style-type: none"> • Antimussol® HT2S liq <p>Wetting, Deaerating agent:</p> <ul style="list-style-type: none"> • Leonil® EHC liq c <p>Lubricant:</p> <ul style="list-style-type: none"> • Imacol® MPE liq • Imacol® X-JET liq <p>Dyestuff protection agent:</p> <ul style="list-style-type: none"> • Revatol® AR liq <p>Dispersing agent:</p> <ul style="list-style-type: none"> • Lyocol® PRDN liq • Lyocol® RDN liq <p>Levelling/Dispersing:</p> <ul style="list-style-type: none"> • Eganal® DFT liq • Eganal® X-ACT liq • Lyogen® P liq c <p>Diffusion accelerator:</p> <ul style="list-style-type: none"> • Dilatin® POE liq <p>Acid buffer:</p> <ul style="list-style-type: none"> • Opticid® PB liq • Opticid® PSD liq <p>Alkaline buffer:</p> <ul style="list-style-type: none"> • Lyocol® ELD New liq <p>Oligomer dispersing:</p> <ul style="list-style-type: none"> • Lyocol® POD liq <p>Reductive clearing:</p> <ul style="list-style-type: none"> • Cyclanon® ECO Plus liq (acid) • Cyclanon® MCL liq (alkaline) • Ekalin® F liq • Arostit® MSA (alkaline) <p>Anti migrating:</p> <ul style="list-style-type: none"> • Solidokoll® N liq <p>Pick up improver:</p> <ul style="list-style-type: none"> • Solidokoll® DPR liq

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THE ARCHROMA WAY TO A SUSTAINABLE WORLD

Safe, efficient, enhanced.

As a global leader in color and specialty chemicals, we are committed to develop innovative systems and services to provide you with custom solutions that are:

Safe – It's our nature to protect. Safe to use, safe to release and safe to wear.

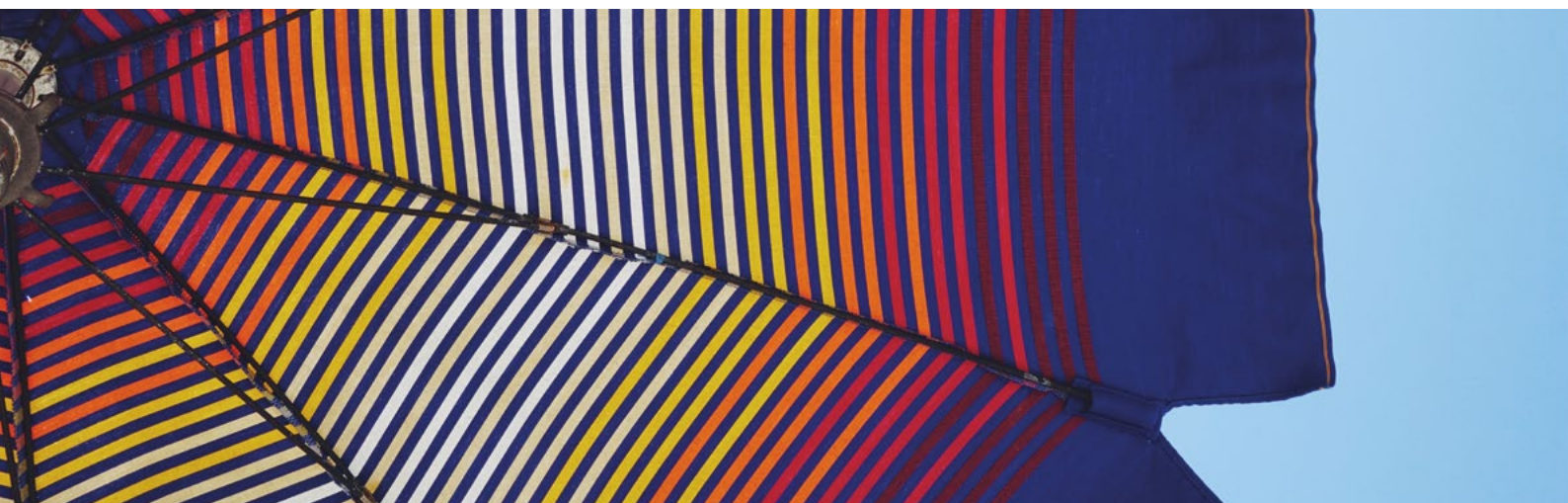
Efficient – It's our nature to rethink sustainable manufacturing. Innovating application processes that minimize resources and maximize productivity.

Enhanced – It's our nature to add another level of value. Effects, functionality and aesthetics to give additional value, for a life enhanced.



Ask your Archroma representative for additional information on our system solutions

*below limits of detection according to industry standard test methods





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