CUSTOMIZED





TECHNICAL TEXTILES

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COMPETITIVE ADVANTAGES FOR THE TEXTILE INDUSTRY

The quality demands of technical textiles and composites are increasing and constantly changing. Along the textile value creation chain and the associated industries, a wide range of requirements must be considered individually and above all, with respect to increasing value.

At Schill+Seilacher, chemicals for refining textiles have a tradition dating back over 100 years. We offer sophisticated solutions and services for textile constructions based on cotton, jute, hemp, kenaf, wool, silk, viscose, polyester, polyamide, polyacrylic, polyolefines, carbon fibres and fibre glass.

Our customers benefit from our flame retardants, biocides, antistatic inhibitors, foaming agents and defoamers, wetting agents, water and oil repellent products not to mention our surfactants for technical applications and corrosion inhibitors.

Our fields of application are as versatile as our customer requests.

As a renowned partner of the global textile industry, we offer forward-looking, innovative solutions of superior quality.

In-time and competent as required.

WORLD

SCHILL+SEILACHER IS THE WORLD'S MARKET-LEADER IN MANUFACTURING AND DEVELOPING SPECIALITY CHEMICALS FOR PROCESS OPTIMIZATION.

AS A GLOBAL PLAYER AND EXPERIENCED TECHNOLOGICAL PARTNER WITH A LONG ESTABLISHED TRADITION, WE ACCOMPANY OUR PARTNERS TO A SUSTAINABLE FUTURE. WE ARE PASSIONATE ABOUT CHEMISTRY AND THIS PASSION IS REFLECTED IN OUR PRODUCTS. OUR WORLD CLASS APPLICATION TECHNOLOGY LABORATORIES ENABLE US TO SIMULATE, ANALYSE AND PERFECT CUSTOMER-SPECIFIC REQUIREMENTS. WITH OUR FULL COMMITMENT AND INNOVATIVE SOLUTIONS, WE MAKE A SIGNIFICANT CONTRIBUTION TO GENERATING ADDED VALUE AND ENSURING ECONOMIC SUCCESS. WE ARE PROUD TO PROVIDE AN EXTENSIVE PORTFOLIO WHICH IS GLOBALLY PRESENT IN ALL AREAS OF LIFE. SCHILL+SEILACHER ALWAYS PROVIDES YOU WITH »GOOD CHEMISTRY«.

Customized Solutions –

the perfect response to special requirements

Our partners' expectations are always motivation and recognition for us. We are driven to reward the trust our customers have placed in us by investing in technologies of tomorrow and the qualification of our employees. Our main focus lies on innovating our research and development activities. Personal conviction and our customers' best interests lead us to act in a responsible manner to safeguard the future and our environment by saving water, energy and transportation costs. We do this for the sake of the environment and to respect the financial resources of our customers.

Global leadership through healthy growth

Our success story started in 1877, when Karl Schill and Christoph Seilacher in Heilbronn, Germany, created chemical additives in order to support a more effective leather processing. In 1943 the production was relocated to Böblingen near Stuttgart. As early as 1925, an additional production site for the manufacture of rubber additives opened in Hamburg. Adding to this, in 1979 the Struktol Company of America was founded in Ohio and in 1997 the Schill+Seilacher Chemie GmbH was established in Pirna, Germany. Since 2019, the Schill+Seilacher group is foundation-owned. With our development and production sites as well as to our worldwide distribution network, we are closer than ever to our customers.

For further information on sustainability, customized solutions, quality standards and other subjects please visit our website or contact us directly. We will be pleased to assist you!

GREEN CHEMISTRY FOR A SUSTAINABLE FUTURE

ECOLOGICAL. ECONOMICAL. SOCIAL.

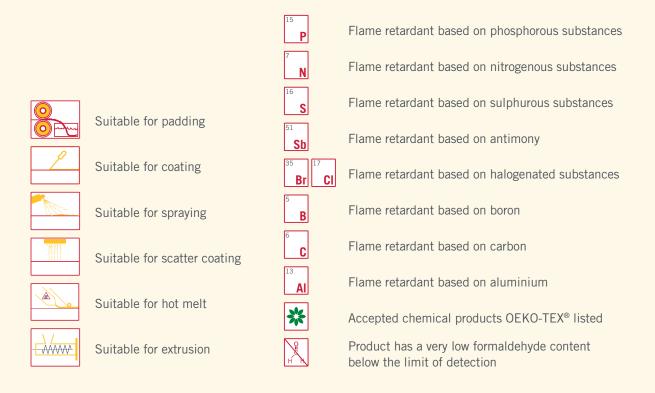
ENVIRONMENTAL SOLUTIONS PLAY A MAJOR ROLE AT SCHILL+SEILACHER. WE HAVE LONG RECOGNIZED THE IMPACT OF RENEWABLE RESOURCES AND ENERGY CONSERVATION IN ALL ASPECTS OF OUR BUSINESS.



To us, sustainable action consists not only of environmental protection, but also the combination of economic, environmental and social responsibility. In our supply chains, we ensure compliance with social criteria and as the key to success, we provide industry leading trainee schemes and further in-service courses to our employees. Furthermore, we support the UN Global Compact, the global pact between companies and the United Nations, to help shape globalisation in a more social and environmental way.

ACTING WITH RESPONSIBILITY AND CERTIFICATIONS

As the world's market-leader, our duty and passion is to create customized additives. Our own high demand for quality and our DIN EN ISO 9001-certified quality management system ensure the unique product performance of our additives. Respecting environmental protection e.g. through waste avoidance and reducing recourses and energy, our production sites are certified according to DIN EN ISO 14001 as well as energy efficiency according to DIN EN ISO 50001. Furthermore, our portfolio includes FDA-compliant products conforming to the strict requirements of the American Food and Drug Administration (FDA). Recognised ISO and RSPO certifications are further credentials of our responsibility toward people, quality and the environment.



FLACAVON	CO	PES	PA	PAN	PP	W0	CO/PES
ARP	~	~	~	~	~	~	~
AZ		~					
FCE		~			~		
FD 8041 N	~					~	
HVT	~	~					~
FC 2009	✓					~	~~
BST	✓					~	~
B45	~~~	~	~	~	~	~	~
FR 1123/31	~	~					~
FU 1202/41		~					✓
~	* * *		~~			1 .	
suitable for	suitable for blends with max. 20 % PES		certified for DIN 4102/B1	:	semi-permanent per		manent

FLAME RETARDANTS HOME FURNISHING UPOLSTERY

FR 1123/19









- Very effective flame retardant agent
- Effects are durable to leaching according to BS 5651
- Soft fabric handle
- No hygroscopicity
- Low tendency to cause corrosion
- Contains no substance identified as SVHC
- Flame retardant compound for BS 5852 IS 0 & 1
- Foamable
- Durable against multiple washes

FR 1123/31









- Effects are durable to leaching according to BS 5651
- Soft fabric handle
- No hygroscopicity
- Low tendency to cause corrosion
- Contains no substance identified as SVHC
- Flame retardant compound for BS 5852 IS 0 & 1
- Foamable
- Durable against multiple washes

FR 4213/06









- Effects are durable to leaching according to BS 5651
- Soft fabric handle
- No hygroscopicity
- Low tendency to cause corrosion
- Contains no substance identified as SVHC
- Flame retardant compound for BS 5852 IS 0 & 1 & 5
- Foamable
- Durable against multiple washes

HOME FURNISHING UPHOLSTERY

FLACAVON BST





- Halogen free
- Special product for natural fibres e.g. cotton, wool and mixture to a maximum of 20% polyester
- Good flame retardant effects
- A curing step has to be done
- Soaking resistant acc. BS 5651
- No influence on the handle
- Less tendency to yellowing

FU 1202/41















- Compound for flame retardant finishing of polyester and cotton/polyester
- Durable effects against leaching according to BS 5651
- Soft fabric handle
- No hygroscopicity
- Foamable
- No long term experience about odour and emission for indoor application

FLACAVON FH 9004/123













- Good temperature stability
- Weathering durable, water insoluble
- Machine washable up to 60 °C with a suitable choice of binder
- Non hygroscopic
- Low tendency to cause corrosion
- Contains no substance identified as SVHC
- Foamable
- Low emissions
- Applied in combination with a suitable choice of binder

HOME FURNISHING DECORATION

FLACAVON ARP









- Halogen free
- Universal applicable, non ionic
- Generally suited to all fibre types
- Thermally stable to 160 °C
- Not durable to weathering/washing

FLACAVON AZ





- Halogen free
- Mainly suited for polyester finishing
- Durable effects against washing
- Application in a thermosol process with after scouring

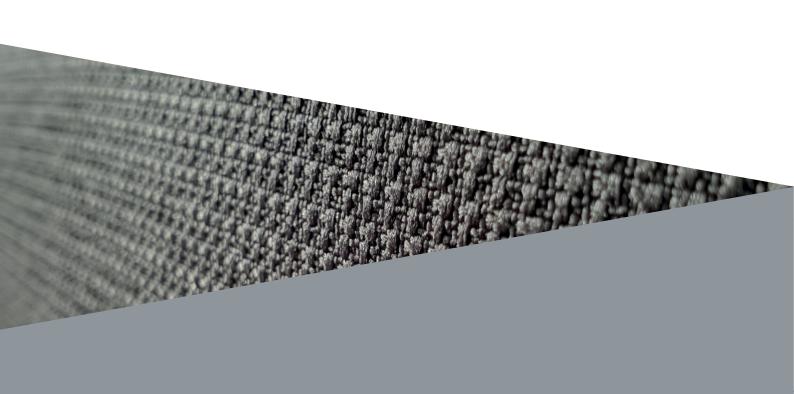
FLACAVON HVT







- Halogen free
- Suitable for polyester, natural fibres e.g. cotton, jute and kenaf
- Not durable to weathering/washing
- Low corrosion tendency



HOME FURNISHING DECORATION

FLACAVON B 45





- Suitable for all fibre types
- Thermally stable to 100 °C
- Little effect on fabric handle
- Not durable to leaching and washing

FLACAVON FD 8041 N





- Halogen free
- Effective on cellulosic fibres
- Thermally stable to 150 °C
- Low corrosion tendency
- Minimal effect on handle
- Not durable to weathering/washing



HOME FURNISHING BLIND

FLACAVON AZ





- Halogen free
- Mainly suited for polyester finishing
- Durable effects against washing
- Application in a thermosol process with after scouring

FLACAVON FL1025/89 D









- Halogen free
- Suitable for cotton, polyester and glass fibre, technical non-wovens
- Applied in combination with a binder
- Low afterglow times
- Low tendency to cause corrosion
- Thermally stable
- Minimal effect on dyed shades

FLACAVON FU 3110









- Halogen free
- Flame retardant compound
- Good effects on polyester
- Good adhesion
- Foamable
- Light stable
- Flexible handle
- Suitable for ink-jet printing



AUTOMOTIVE SECTOR

FLACAVON FCE





- Polymer flame retardant
- Suitable for polyester, polypropylene and mixtures with viscose
- Thermally stable to 180 °C
- Not durable to weathering/washing

FLACAVON ARP





- Halogen free
- Universally applicable, non-ionic
- Generally suited to all fibre types
- Thermally stable to 160 °C
- Not durable to weathering/washing

FLACAVON HVT





- Halogen free
- Suitable for polyester, natural fibres e.g. cotton, jute and kenaf
- Not durable to weathering/washing
- Low corrosion tendency

AUTOMOTIVE SECTOR

FLACAVON M 43/37





- FR agent for technical textiles out of cellulosic and synthetic fibre
- Applied in combination with a binder
- Thermally stable to 160 °C
- Leaching and dry cleaning durable

FLACAVON FL1025/89 D





- Halogen free
- Suitable for cotton, polyester and glass fibre, technical non-wovens
- Applied in combination with a binder
- Low afterglow times
- Low tendency to cause corrosion
- Thermally stable
- Minimal effect on dyed shades

FLACAVON H 14/94

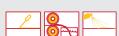




- Suitable for all fibre types
- Applied in combination with a binder
- Thermally stable to 180 °C
- Leaching and wash durable up to 60 °C with suitable choice of binder
- Minimal effect on dyed shades
- Low tendency to cause corrosion

FLACAVON FH 9004/123





- Very effective with all fibre types
- Good temperature stability
- Weathering durable, water insoluble
- Machine washable up to 60 °C with suitable choice of binder
- Non hygroscopic
- Low tendency to cause corrosion
- Contains no substance identified as SVHC
- Foamable
- Low emissions
- Applied in combination with a suitable choice of binder

AUTOMOTIVE SECTOR

FH 9004/145









- Very effective with all fibre types
- Good temperature stability
- Weathering durable, water insoluble
- Machine washable up to 60 °C with a suitable choice of binder
- Non hygroscopic
- Low tendency to cause corrosion
- Contains no substance identified as SVHC
- Foamable
- Low emissions
- Applied in combination with a suitable choice of binder



CONSTRUCTION

FLACAVON FL1025/89 D









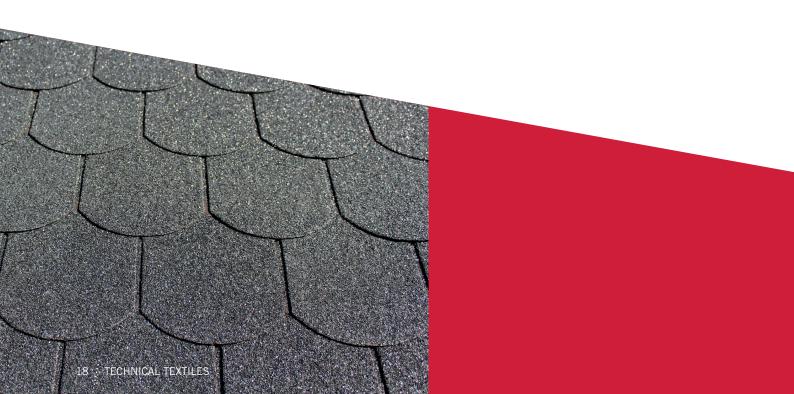
- Suitable for cotton, polyester and glass fibre, technical non-wovens
- Applied in combination with a binder
- Low afterglow times
- Low tendency to cause corrosion
- Thermally stable
- Minimal effect on dyed shades

FLACAVON H 14/112





- Halogen free
- Good flame retardant effects
- Mainly polyester fabrics with low cellulosic content
- No after glowing
- Temperature stability up to 150 °C
- Applied in combination with a suitable choice of binder



CONSTRUCTION

FLACAVON DPL





- Halogen free
- Melt adhesive based on ethyl vinyl acetate
- Suitable for polyester, polypropylene and polyethylene
- Leaching and wash durable
- Low tendency to cause corrosion

FLACAVON H 14/94









- Suitable for all fibre types
- Applied in combination with suitable choice of binder
- Thermally stable to 180 °C
- Leaching and wash durable up to 60 °C depending on polymer system
- Minimal effect on dyed shades
- Low tendency to cause corrosion

CONSTRUTION

CONSTRUCTION

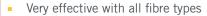
FLACAVON FH 9004/123











- Good temperature stability
- Weathering durable, water insoluble
- Machine washable up to 60 °C with suitable choice of binder
- Non hygroscopic
- Low tendency to cause corrosion
- Contains no substance identified as SVHC
- Foamable
- Low emissions
- Applied in combination with a suitable choice of binder

FH 9004/145















- Good temperature stability
- Weathering durable, water insoluble
- Machine washable up to 60 °C with a suitable choice of binder
- Non hygroscopic
- Low tendency to cause corrosion
- Contains no substance identified as SVHC
- Foamable
- Low emissions
- Applied in combination with a suitable choice of binder

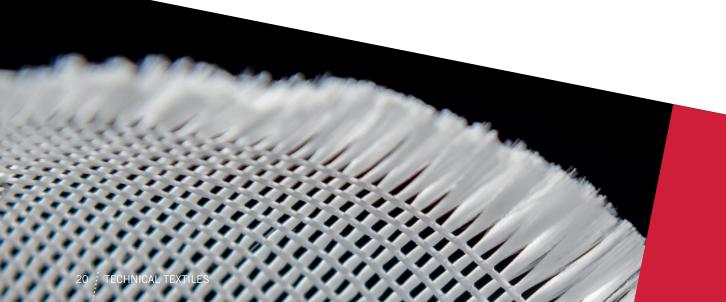
FH 4212/27







- Universal flame retardant agent
- Durable against weathering with a suitable choice of binder
- UV-stable
- Water insoluble
- Applied in combination with a suitable choice of binder



ADD ON AND SPECIAL

FLACAVON 275





- Use for reducing afterglow times
- Application with suitable FR agent and polymer e.g. FLACAVON FH 9004/123 and UKADAN 650
- No negative influence on other effects

FLACAVON ALH





- Extender for flame-retardant finishing
- Applied in combination with a binder
- Reduction of smoke formation

FLACAVON POLY 900





- Phosphorus containing comonomer
- Polyester polycondensation process
- Reactive monomer for polymerisations

ADD ON AND SPECIAL

FLACAVON FK 6048/07





- Flame retardant plasticiser
- Suitable for all fibre types
- Applied in combination with a binder e.g. UKALIT G 42/149
- Thermally stable to 160 °C
- Minimal influence on hydrophobic effects

FLACAVON H 14/94









- Suitable for all fibre types
- Applied in combination with a binder e.g. UKALIT G 42/149
- Thermally stable to 180 °C
- Leaching and wash durable up to 60 °C depending on polymer system
- Minimal effect on dyed shades
- Low tendency to cause corrosion

FLACAVON F 42/156





- Suitable for all fibre types
- Water free for use in solvent based systems
- Applied in combination with a binder, especially solvent based polyurethane systems
- Thermally stable to 180 °C
- Leaching and wash durable



FR 5225 COMPONENT A + B





- Compound for tentage fabrics
- Durable to weathering and leaching
- Low afterglow time can be achieved by adding FLACAVON 275
- Non hygroscopic
- Fungicide and rot proof effects
- Contains no substance identified as SVHC
- Use only outside the EU

FR 5217/01





- Compound for tentage fabrics
- Durable to weathering and leaching
- Low afterglow time can be achieved by adding FLACAVON 275
- Non hygroscopic
- Fungicide and rot proof effects
- Contains no substance identified as SVHC
- Use only outside the EU



EVORAL FLUORINE

EVORAL OR-6

- C6 fluorocarbon resin
- Highly effective for oleophobic finishing
- Little or no influence on the handle

Technical textiles
Cellulosics

Synthetic fibres

EVORAL SR-6

- C6 fluorocarbon resin
- Highly efficient for soil-repellent finishing

Technical textiles

Decorative textiles

EVORAL OA-N

- C6 fluorocarbon resin
- Suitable for all fibre types
- Repellency against alcohol

Home textiles Automotive



EVORAL FLUORINE FREE

EVORAL S

- Paraffin wax dispersion
- Suitable for hydrophobic finishing
- Suitable for all fibre types

Non-wovens

Glass wall covering

Floor coverings

EVORAL FLT

- Paraffin wax dispersion
- Suitable for hydrophobic finishing
- Suitable for all fibre types

Tentage fabrics Lining material

EVORAL PF

- Mixture based on aluminium, zinc and zirconium compounds
- Good water repellent properties
- Paraffin free

Bitumnised fabrics

EVORAL A 150

- Paraffin wax dispersion
- Improves water resistance of glass wall coverings
- Improves the subsequent painting with emulsion paint

Glass wall covering

AFROTIN

AFROTIN ZNK

AFROTIN ZNP



- Suitable for cotton and all mixtures with polyester, viscose and linen
- Very effective against earth bacteria and mildew
- Generally suitable for combination with polymers
- Durable to weathering and leaching in combination with suitable polymer dispersions
- No negative effect on water repellence
- Perfect fit for opaque and dark colors

Tentage fabrics

Belts

Tapes

Awning

Mattress ticking

AFROTIN LC

- Wool, natural fibres such as cotton, hemp, jute, kenaf, linen in mixtures with polypropylene or polyester
- Wide spectrum of effectivity against gram-positive and gram-negative bacteria, yeast and all fungi
- Effective up to 230 °C
- Halogen free
- Heavy metal free
- Not durable to weathering/washing

Automotive

Insulation

Cladding

Moulded components

AFROTIN BF 5060

- Biocide for film preservation and maintenance of polymer properties
- Very effective against fungi
- Good weathering and light stability
- No influence on the waterproof
- Use only outside the EU

Technical textiles
Tentage fabrics

AFROTIN BF 4302

- Suitable for cotton and all mixtures with polyester, viscose and linen
- Very effective against earth bacteria and mildew
- Generally suitable for combination with polymers
- Durable to weathering and leaching in combination with suitable polymer dispersions
- No negative effect on water repellence
- Perfect fit for opaque and dark colors

Technical textiles
Tentage fabrics

EVORAL/SILASTAN

EVORAL AST - H

- Foam auxiliary and foam stabilizer
- No negative influence on hydrophobic effects
- Free from dispersing agents and emulsifiers

Technical textiles

SILASTAN 1937

- Foaming agent
- Fine-pored and stable foam
- Good wetting properties
- Less influence on hydrophobic and oleophobic effects

Technical textiles Automotive

SILASTAN WH 30

- Foaming auxiliary
- Used for aqueous binder and finishing baths
- Medium viscous paste, anionic
- Stable up to 30° German water hardness

Technical textiles
Automotive



FOR TECHNICAL TEXTILES

DESPUMOL

DESPUMOL PM

- Defoamer
- Silicone based, non-ionic
- Suitable for aqueous systems
- Used for scouring and rinsing liquids

Universally applicable

DESPUMOL CWN

- Defoamer
- Mineral oil based, non-ionic
- Silicone free

Universally applicable



UKANOL

UKANOL 41 N

- Thickening agent
- Acrylate-copolymer, liquid
- Strong thickening effects
- Particularly useful for hydrophobic formulations
- Good electrolyte stability

Technical textiles

UKANOL 519

- Thickening agent
- Cellulose derivative, non-ionic
- Water-soluble powder
- Good electrolyte stability
- Good stabilisation of pigment containing pastes

Technical textiles Glass textiles

UKANOL 18

- Rheology agent
- Polymer, non-ionic, liquid
- Suitable for polymer dispersions
- Good wetting of pigments
- Good stabilisation of pigment and dyestuff liquors
- Little influence on hydrophobic properties

Technical textiles

UKADAN

UKADAN 650

- Self crosslinking acrylate, non-ionic
- Soft, transparent yellowish film
- Good pigment binding capability
- Good wash durability
- Stable to UV light

Technical textiles Non marking handle

UKADAN 88

- Self crosslinking acrylate, anionic
- Medium-hard films, transparent to slight milky film
- Good pigment binding capability
- Good wash durability
- Stable to UV light
- Thermally stable up to 180 °C

Technical textiles Tentage fabrics Glass textiles Automotive

UKADAN 2170

- Polyurethane dispersion, anionic
- Soft films, transparent
- Stable against hydrolysis
- Stable to UV light
- Good wash durable effects

Home textiles **Technical textiles** Carpets

UKADAN 1698

- Acrylate disperion
- Soft and tacky film, transparent to slightly yellow
- High pigment binding capability

Technical textiles Construction

UKADAN/UKALIT

UKADAN 1100

- Solution of polyester resin
- Polymer for flame-retardant textile finishes
- Clear and hard film formation
- Good light stability

Technical textiles

Nonwovens

Automotive

PES fabrics

UKADAN VP 9106

- Anti-slip finishing
- Polymer dispersion
- Durable against fine washes
- Printing and coating methods
- Combinable with polymer dispersions

Home textiles Technical textiles

Carpets

UKADAN 2125

- Polyvinyl acetate dispersion
- Medium stiff to hard films, clear
- Good running properties
- Combination with other auxiliaries possible

Technical textiles

Glass fibre

UKALIT L 17

- Self crosslinking polyvinyl acetate, nonionic
- Terpolymer, non-ionic
- Good pigment binding capability
- Forms flexible films
- Stable to UV light
- No yellowing up to 160 °C

Technical textiles Glass textiles **Automotive**

UKALIT G 42/149

- Polyvinylchloride-copolymer, non ionic
- Soft film forming, transparent
- Low flammability
- Especially useful in FR formulations and FR finishings
- Good pigment binding capability
- Good hydrolysis resistance

Technical textiles

ANTISTATIC

POLYFIX N-FC

- Phosphoric acid ester, anionic
- Good effects on all synthetic fibre types
- Stable to UV light
- Little effect on fabric handle
- Non durable finishing

SILASTOL 1789 K

- Antistatic additive
- Increases fibre/fibre cohesion
- Good wetting and spreading characteristics
- Non yellowing
- Combination with fibre lubricant
- Easily washed out

Decoration fabrics

Fibre antistatica



PROCESS AUXLIARIES

UKANOL OAC 200

- Odour absorber
- Water soluble
- Compatible with non-ionic and anionic
- Surfactant systems
- Readily biodegradable

Universal use Technical textiles

UKANOL RUN

- Addtives for use in finishing compounds to improve running properties
- Especially for products with pigments

Technical textiles



LOCATIONS.

BÖBLINGEN

GERMANY

DIN EN ISO 9001:2015 DIN EN ISO 14001:2015 DIN EN ISO 50001:2011 RSPO Certification Mass Balance SPIN FINISHES FOR MAN-MADE FIBRES CHEMICALS FOR TECHNICAL TEXTILES LEATHER CHEMICALS PAPER CHEMICALS COSMETIC, HI&I, SPECIAL CHEMICALS

HAMBURG

GERMANY

DIN EN ISO 9001:2015 DIN EN ISO 14001:2015 DIN EN ISO 50001:2011 RUBBER ADDITIVES
ANTIFOAMS
REACTIVE POLYMERS
& FLAME RETARDANTS
LATEX ADDITIVES
SILICONES
RELEASE AGENTS

PIRNA

GERMANY

DIN EN ISO 9001:2015

SILICONES
PU INDUSTRY
PAPER
TEXTILES
COSMETICS
FIBRES

STOW

USA

DIN EN ISO 9001:2008

RUBBER ADDITIVES
PLASTIC ADDITIVES
PVC ADDITIVES
ENGINEERED
THERMOPLASTIC ADDITIVES
WOOD PLASTIC
COMPOSITE ADDITIVES

VILLA RICA

RUBBER ADDITIVES

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