SOLUTIONS FOR TEXTILE INDUSTRY

LONG TERM COOPERATION
LONG LASTING EXPERIENCE
COMMON SUCCESS

WAITING FOR YOUR CHALLENGE!

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INNOVATIVE PRODUCTS FOR TECHNICAL TEXTILES AND THE ASSOCIATED INDUSTRY
COMPETITIVE ADVANTAGES FOR THE FINISHING OF TRADITIONAL AND TECHNICAL TEXTILES

THE QUALITY DEMANDS OF TEXTILES, NON-WOVENS, AND FABRICS ARE INCREASING AND CONSTANTLY CHANGING. ALONG THE TEXTILE VALUE CREATION CHAIN, 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 130 years. We offer sophisticated solutions and services for cotton, wool, silk, viscose, polyester, polyamide, polyacrylic, polyolefines, blended fibres, and fibre glass. Industry and end-customers alike profit from our flame retardants, water and oil repellent products not to mention our antistatics. Our assortment comprises auxiliaries for the automotive industry, products for the construction industry, fungicides and much more.

As a renowned partner of the global textile industry, we offer forward-looking, innovative solutions of surpassing quality. In-time, as required, and competent.
Following the Second World War, Schill+Seilacher moved its Heilbronn operation to Böblingen, a suburb of Stuttgart. Although both locations Hamburg and Böblingen are sharing the same name, they are serving different industries and working independently of each other. Schill+Seilacher ventured into the North American market in 1979 with the establishment of Struktol® Company of America. SCA is located at the heart of the American tire industry, just outside Akron, Ohio, and majorly supplies the plastic, rubber and tire industries. Schill+Seilacher Chemie GmbH, situated on the banks of the Elbe just south of Dresden was acquired in the early 1990s and serves as both a production and research facility for silicone based chemistry.

SNS Nanotech in Hudson, Ohio, specializes in developing complex nanofiber matrices and is the youngest member of the Schill+Seilacher Group. Their proprietary technology enables the fabrication of self-supporting mats that can entrap particles within a nanofiber matrix or encapsulate them within individual nanofibers.
WORLDWIDE

... TO A GLOBAL PLAYER IN THE PRODUCTION OF INDUSTRIAL PROCESS ADDITIVES.

IN HAMBURG TO CATER TO THE EXPANDING NEEDS OF ITS GROWING CUSTOMER BASE AND SECURE BETTER ACCESS TO INTERNATIONAL MARKETS THROUGH THE CITY’S BUSTLING PORT.

**DIN EN ISO 9001: Our quality guarantee**

The high quality standard of our products is guaranteed by our certified quality management system (ISO 9001), which integrates our highly qualified application experts, state of the art laboratories and testing equipment, and modern production methods into an effective and continually improving team.

**DIN EN ISO 14001, DIN EN ISO 50001:**

Our commitment to the environment

Our commitment to reducing waste and managing energy consumption efficiently has been at the core of our business for many years. By helping us work more efficiently and cost effective, our ISO 14001 and ISO 50001 certification promise better products through environmental responsibility.

Specific information of site certifications can be found on page 34.
**PICTOGRAM LEGEND**

<table>
<thead>
<tr>
<th>Suitable for padding</th>
<th>Flame retardant based on phosphorous substances</th>
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<tr>
<td>Suitable for coating</td>
<td>Flame retardant based on nitrogenous substances</td>
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<tr>
<td>Suitable for spraying</td>
<td>Flame retardant based on sulphurous substances</td>
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<tr>
<td>Suitable for scatter coating</td>
<td>Flame retardant based on antimony</td>
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<td>Suitable for hot melt</td>
<td>Flame retardant based on carbon</td>
</tr>
<tr>
<td>Suitable for extrusion</td>
<td>Flame retardant based on aluminium</td>
</tr>
</tbody>
</table>

Active chemical products - flame retardant agents for OEKO-TEX® Standard 100

Product has a very low formaldehyde content below the limit of detection

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### FLAME RETARDANTS AQUEOUS SOLUTION

**FLACAVON**

<table>
<thead>
<tr>
<th>FLACAVON</th>
<th>CO</th>
<th>PES</th>
<th>PA</th>
<th>PAC</th>
<th>PP</th>
<th>WOOL</th>
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<tr>
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</tbody>
</table>

**LEGEND:**

- ✓✓ Very suitable/durable
- ✓ Suitable/semi-durable

- ☢ Accredited for DIN 4102 B1
- ☢ Accredited for BS 5852
- ☢ Blends with max. 20 % PES

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**SOLUTIONS FOR TEXTILE INDUSTRY**
| FLACAVON AM | - colourless and highly effective on polyamide  
|            | - thermally stable to 160°C  
|            | - minimal effect on fabric handle  
|            | - not durable to weathering/washing  
|            | - very low tendency to hygroscopic effects |
|            | Decorative textiles  
|            | Home textiles  
|            | Technical textiles |

| FLACAVON ARP | - universally applicable, non-ionic  
|             | - generally suited to all fibre types  
|             | - thermally stable to 160°C  
|             | - not durable to weathering/washing  
|             | - gas-phase active flame retardant |
|             | Home textiles  
|             | Technical textiles  
|             | Textiles |

| FLACAVON AZ | - mainly suited to polyester finishing  
|             | - leaching and washing durable effects after thermosol application at 170°C  
|             | - gas-phase active flame retardant |
|             | Home textiles  
|             | Decorative textiles  
|             | Technical textiles |

| FLACAVON FCE | - polymer flame retardant  
|              | - suitable for polyester, polypropylene and mixtures with viscose  
|              | - thermally stable to 180°C  
|              | - not durable to weathering/washing  
|              | - gas-phase active flame retardant |
|              | Automotive  
|              | Non-wovens  
|              | Moulded components |

| FLACAVON FD 8041 | - particularly well suited to cotton  
|                  | - thermally stable to 150°C  
|                  | - low corrosion tendency  
|                  | - minimal effect on handle  
|                  | - not durable to weathering/washing |
|                  | Velvet curtains  
|                  | Decorative textiles  
|                  | Upholstery fabrics |

| FLACAVON HVT | - suitable for polyester, natural fibres e.g., cotton, jute and kenaf  
|              | - thermally stable to 150°C  
|              | - not durable to weathering/washing  
|              | - low corrosion tendency |
|              | Belts  
|              | Home textiles  
|              | Decorative textiles  
|              | Technical textiles |
## FLACAVON

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
</table>
| FLACAVON PE 500 | - Halogen free phosphorous based flame retardant  
                    - Intumescent system  
                    - Water free or water borne     |
| FLACAVON KSC  | - Special product for natural fibres e.g. cotton wool and mixtures to a maximum of 20%  
                    - Suitable for effects according to BS 5852  
                    - When applied in combination with Stabiliser DDA followed by fixation at 170°C: leaching durable     |
| FLACAVON R NEU | - Suitable for cotton and wool  
                    - Certified to DIN 4102 B 1 for cellulosic fabrics (except jute) e.g. cotton and wool  
                    - Thermally stable to 110°C  
                    - Low tendency to crystallisation  
                    - Minimal effect on shade  
                    - Not durable to weathering/washing     |

### Applications

- **Textile coating**
- **Wood protection**
- **Home textiles**
- **Decorative textiles**
- **Upholstery fabrics**
- **Decorative textiles**
- **Technical textiles**
<table>
<thead>
<tr>
<th>FLACAVON WP</th>
<th>FLACAVON FC 2009</th>
<th>FLACAVON BST</th>
</tr>
</thead>
<tbody>
<tr>
<td>special product for cellulosic e.g. cotton and mixtures to a maximum of 20 % polyester</td>
<td></td>
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<tr>
<td>fibre reactive with minimal effect on fibre strength</td>
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<tr>
<td>certified to DIN 4102 B 1 for Cellulose (also Jute)</td>
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<td></td>
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<tr>
<td>leaching and wash durable</td>
<td></td>
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<tr>
<td>dry clean durable</td>
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</tr>
<tr>
<td>good in combination with fluorocarbon dispersion resins e.g. EVORAL OR-6</td>
<td></td>
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</tr>
<tr>
<td>suitable for cellulose- and wool fibres and their mixtures with up to 20% PES content</td>
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<td></td>
</tr>
<tr>
<td>fixation is achieved by a thermal process</td>
<td></td>
<td></td>
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<tr>
<td>soaking resistant according to BS 5651/3</td>
<td></td>
<td></td>
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<tr>
<td>good temperature stability</td>
<td></td>
<td></td>
</tr>
<tr>
<td>practically no influence on fabric handle</td>
<td></td>
<td></td>
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<tr>
<td>low corrosion effects</td>
<td></td>
<td></td>
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<tr>
<td>low hygroscopicity; the take-up of moisture by the product is reversible</td>
<td></td>
<td></td>
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<tr>
<td>low emissions</td>
<td></td>
<td></td>
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<tr>
<td>good flame retardant effects</td>
<td></td>
<td></td>
</tr>
<tr>
<td>thermal treatment for fixation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>soaking resistant according to BS 5651/3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>no influence on the handle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>less tendency to yellowing</td>
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</tr>
<tr>
<td>special product for natural fibres like cotton and wool</td>
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**Flame Retardants – Aqueous Solution – Halogen Free**

*FLACAVON* is a range of flame retardant products specifically designed for the textile industry. The products are halogen-free and offer various benefits such as:

- Protective Workwear
- Upholstery fabrics
- Children’s sleepwear
- Workwear e.g. hospitals

**FLACAVON WP** is a special product suitable for cellulosic materials, including cotton, and mixtures with up to 20% polyester. It is fibre reactive with minimal effect on fibre strength and certified to DIN 4102 B 1 for Cellulose (also Jute). It is leaching and wash durable, dry clean durable, and good in combination with fluorocarbon dispersion resins.

**FLACAVON FC 2009** is suitable for cellulose- and wool fibres and their mixtures with up to 20% PES content. Fixation is achieved by a thermal process, and it is soaking resistant according to BS 5651/3. It has good temperature stability, practically no influence on fabric handle, low corrosion effects, low hygroscopicity, and low emissions.

**FLACAVON BST** offers good flame retardant effects and thermal treatment for fixation. It is soaking resistant according to BS 5651/3, with no influence on the handle, less tendency to yellowing, and is a special product for natural fibres like cotton and wool.
FLACAVON

**FLACAVON POLY 200**
- gas-phase active and substrate independent flame retardant
- polymeric phosphorous flame retardant
- transparent
- hard handle
- UV stability with an additive like UX 7201/50

**FLACAVON POLY 300 NEW**
- gas-phase active and substrate independent flame retardant
- polymeric phosphorous flame retardant
- semi-transparent film
- medium-soft handle
- UV stable

**FLACAVON ALH**
- Extender e.g. for FLACAVON H 14/94 GF
- applied in combination with a binder e.g. UKALIT G 42/149
- reduces smoke development
- leaching and wash durable

**FLACAVON FL 9116/04**
- generally suitable for all fibre types, especially polyester
- applied in combination with a binder e.g. UKALIT L 17
- durable to weathering/washing
- low tendency to cause corrosion
- gas-phase active flame retardant

**FLACAVON FL 1025/89 D**
- suitable for cotton, polyester and glass fibre, technical non-wovens
- applied in combination with a binder
- good leaching resistance depending on the binder
- low afterglow times
- low tendency to cause corrosion
- thermally stable
- minimal effect on dyed shades

**FLACAVON H 14/112 NEW**
- good flame retardant effects
- mainly polyester fabrics with low cellulosic content
- no after glowing
- temperature stability up to 150 °C
##解决方案

###FLAME RETARDANTS

####FLACAVON

<table>
<thead>
<tr>
<th>Product</th>
<th>Features</th>
</tr>
</thead>
</table>
| FM 5059/19 | - Flame retardant pigment dispersion  
- Application with suitable polymer (e.g. UKADAN 2170)  
- Durable to dry-laundering  
- Formaldehyde free  
- Halogen free  
- Dark grey |
| FLACAVON POLY 800 | - Gas-phase active and substrate independent flame retardant  
- Polymeric phosphorus halogen free flame retardant  
- Soluble in organic solvents  
- Suitable for plastics  
- Thermal stable and durable  
- Soluble in organic solvents like DMF |
| FLACAVON POLY 900 | - Phosphorus containing comonomer  
- PES polycondensation process  
- Reactive monomer for polymerisations |
| FLACAVON 275 | - Additive for reducing afterglow times  
- E.g. in combination with FLACAVON FH 9004/123 and UKADAN 650 |
| FLACAVON DPL | - Melt adhesive based on ethyl vinyl acetate (EVA)  
- Suitable for polyester, polypropylene and polyethylene  
- Leaching and wash durable  
- Low tendency to cause corrosion  
- Application temperature up to 130°C |
| FLACAVON 114 | - Effective flame retardant effects  
- Halogen free  
- Combination with aqueous polymer dispersions  
- Powder |

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###POWDER – HALOGEN FREE

####POWDER – HALOGEN FREE

<table>
<thead>
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<th>Product</th>
<th>Features</th>
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<tr>
<td>POWDER – HALOGEN FREE</td>
<td>- Powder – Halogen free</td>
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</table>
| FLACAVON POLY 800 | - Gas-phase active and substrate independent flame retardant  
- Polymeric phosphorus halogen free flame retardant  
- Soluble in organic solvents  
- Suitable for plastics  
- Thermal stable and durable  
- Soluble in organic solvents like DMF |
| FLACAVON POLY 900 | - Phosphorus containing comonomer  
- PES polycondensation process  
- Reactive monomer for polymerisations |
| FLACAVON 275 | - Additive for reducing afterglow times  
- E.g. in combination with FLACAVON FH 9004/123 and UKADAN 650 |
| FLACAVON DPL | - Melt adhesive based on ethyl vinyl acetate (EVA)  
- Suitable for polyester, polypropylene and polyethylene  
- Leaching and wash durable  
- Low tendency to cause corrosion  
- Application temperature up to 130°C |
| FLACAVON 114 | - Effective flame retardant effects  
- Halogen free  
- Combination with aqueous polymer dispersions  
- Powder |
FLACAVON

**DF 3016 SERIES**
- ready to use compounds to impregnate open cell PU foam
- UV stabilized compound
- halogen free
- suitable to fulfill Building Classification DIN 4102 B1, self-extinguishing
- no signs of corrosion observed on iron, zinc, steel and aluminum
- weathertight against driving rain according to DIN 18542/ DIN EN 1027 > 600 Pa

**FLACAVON FU 3110**
- good effects on polyester
- good adhesion
- foamable
- suitable for performance to M1
- light stable
- high white effect
- flexible handle
- suitable for high definition ink-jet printing

Foams
Sealing tapes

Technical textiles
Home textiles
Interior decoration
Wallcovering systems
FLACAVON B 45

- suitable for all fibre types
- certificated to DIN 4102 B 1 for cellulosic fabrics (except jute) e.g. cotton and wool
- thermally stable to 100 °C
- little effect on fabric handle
- not durable to leaching and washing

Decorative textiles
Technical textiles
FLACAVON

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

FLACAVON FK 6048/07
- flame retardant plasticiser, anionic
- 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
- minimal effect on dyed shades
- low tendency to cause corrosion
- not based on brominated biphenyl ethers
- good compatibility with EVORAL OA-N and AFROTN ZNK

FLACAVON M 43/37
- polyester, polypropylene and mixtures with viscose
- applied in combination with a binder e.g. UKALIT G 42/149
- thermally stable to 160°C
- leaching and dry cleaning durable

- Technical textiles
- Artificial leather

- Technical textiles
- Tentage fabrics

- Black-out coatings
- Tentage fabrics
- Camping equipment

- Automotive
- Technical textiles
FLACAVON

FLACAVON FH 9004/123
- effektiv mit allen Fasertypen
- gute Temperaturstabilität
- weatherungsdauer, wasserunlöslich
- waschbar bis 60°C mit passendem Zweckmach
- nicht hygroskopisch
- geringe Tendenz zur Korrosion
- enthält kein SVHC-Wahrscheinlichkeitswert
- formbar
- niedrige Emissionen
- UV-stabil available, z.B. für Vorhänge

Technical textiles

FLACAVON FH 9004/125 NEW
- guter Brandhemmend-Wirkung
- gute Temperaturstabilität
- Waschstabilität abhängig vom Polymer-System
- formbar

Technical textiles

FLACAVON FH 9004/145 NEW
- universeller Brandhemmende Agent
- gute Temperaturstabilität
- Waschstabilität abhängig vom Polymer-System
- formbar
- nicht-ionisch

Technical textiles

FLACAVON FH 4212/27
- universeller Brandhemmende Agent
- dauerhaft gegen Witterung
- UV-stabil
- wasserunlöslich
- anionisch

Blinds
Sunshades
Black-out coatings
# FLACAVON

## FLACAVON FR 1123/07

- **Sb**
- **Br**
- Effects are durable to leaching according to BS 5651
- Soft fabric handle
- No hygroscopicity
- Low tendency to cause corrosion
- Free from softeners or plasticisers
- Contains no substance identified as an SVHC
- FR compound for BS 5852 IS 0 & 1, crib 5
- Foamable
- Durable against several washes

## FLACAVON FR 4213/02

- **Sb**
- **Br**
- Very effective FR compound
- Combines with FLACAVON FR 1123/07
- Foamable
- Durable against several washes

## FLACAVON FR 5225 NEW

- **Sb**
- **Br**
- 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 an SVHC
FLACAVON SERIES
- halogen containing compounds
- good compatibility with AFROTIN ZNK
- colour according to end user specification

SPRAY COLOURS
- aqueous colour pigment dispersion
- polymer containing
- colour according to end user specification

PIGMENT DISPERSIONS
- defined colours
- pigments / colour pigments / matting agents / additives

Tentage fabrics
Camouflage nets

Camouflage nets
Lorry covers

Customer-specific solutions
<table>
<thead>
<tr>
<th>Evoral</th>
<th>Fluorine</th>
<th>Fluorine free</th>
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</table>
| **Evoral OR-6** | - C6 fluorocarbon resin  
- highly effective for oleophobic finishing  
- little or no influence on the handle |  
**Evoral S** | - paraffin wax dispersion  
- only suitable for hydrophobic finishing  
- suitable for all fibre types |
| **Evoral SR-6** | - C6 fluorocarbon resin  
- highly efficient for soil-repellent finishing |  
**Evoral FLT** | - paraffin wax dispersion  
- only suitable for hydrophobic finishing  
- suitable for all fibre types |
| **Evoral WR-6** | - C6 fluorocarbon resin  
- highly efficient for water-repellent finishing |  
**Evoral PF** | - mixture based on aluminium, zinc and zirconium compounds  
- good water repellent properties  
- paraffin free |
| **Evoral OA-N** | - C6 fluorocarbon resin  
- suitable for all fibre types  
- suitable for hydrophobic and oleophobic finishing  
- repellency against alcohol |  
**Evoral A 150** | - paraffin wax dispersion  
- improves water resistance of glass wall coverings  
- improves the subsequent painting with emulsion paint |
| **Evoral WR-6** | - C6 fluorocarbon resin  
- highly efficient for water-repellent finishing |  
**Evoral V-620 New** | - C6 fluorocarbon resin  
- suitable for all fibre types  
- suitable for hydrophobic and oleophobic finishing  
- very effective in initial state and after washes  
- combinable with suitable auxiliaries |
| **Evoral OA-N** | - paraffin wax dispersion  
- only suitable for hydrophobic finishing  
- suitable for all fibre types |  
**Evoral S** | - paraffin wax dispersion  
- only suitable for hydrophobic finishing  
- suitable for all fibre types |
| **Evoral WR-6** | - paraffin wax dispersion  
- only suitable for hydrophobic finishing  
- suitable for all fibre types |  
**Evoral FLT** | - paraffin wax dispersion  
- only suitable for hydrophobic finishing  
- suitable for all fibre types |
| **Evoral OA-N** | - mixture based on aluminium, zinc and zirconium compounds  
- good water repellent properties  
- paraffin free |  
**Evoral PF** | - mixture based on aluminium, zinc and zirconium compounds  
- good water repellent properties  
- paraffin free |
| **Evoral WR-6** | - paraffin wax dispersion  
- improves water resistance of glass wall coverings  
- improves the subsequent painting with emulsion paint |  
**Evoral A 150** | - paraffin wax dispersion  
- improves water resistance of glass wall coverings  
- improves the subsequent painting with emulsion paint |
BIOCIDE PRODUCTS

AFROTIN

**AFROTIN ZNK**
- suitable for cotton and all mixtures with polyester, viscose and linen
- very effective against earth bacteria and moulds
- generally suitable for combination with polymers
- leach durable
- no negative effect on water repellence
- durable anti-microbial finishing
- perfect fit for opaque and dark colors

**AFROTIN ZNP**

**AFROTIN LC**
- wool, natural fibres such as cotton, hemp, jute, kenaf, linen in mixtures with polypropylene or polyester
- wide spectrum of effectiveness 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

**AFROTIN FG**
- preservative for cellulosic, wool and synthetic fibres
- very effective against fungi
- weather and leaching durable
- little influence on the waterproof properties
- heavy metals, halogen and phenol free

**AFROTIN BF 5060 NEW**
- very effective against fungi
- good weathering and light stability
- no influence on the waterproof properties in combination with polymers

**Applications**
- Tentage fabrics
- Belts
- Tapes
- Awning
- Protective workwear
- Mattress ticking

- Automotive
- Insulation
- Cladding
- Moulded components

- Tentage fabrics
- Shower curtains
- Awnings

- Technical textiles
- Tentage fabrics
**EVORAL/SILASTAN**

**EVORAL AST**
- foam stabiliser
- no negative influence on hydrophobic effects
- free from dispersing agents and emulsifiers

**SILASTAN 1937 NEW**
- foaming agent
- fine-pored and stable foam
- good wetting properties
- less influence on hydrophobic and oleophobic effects

**SILASTAN WH**
- medium viscosity paste, cationic
- stable up to 30° German water hardness

**SILASTAN RN NEU**
- good wetting effects at lower temperatures
- effective in alkaline and acid conditions
- limited foam development

**DESPUMOL**

**DESPUMOL PM**
- silicone based, non-ionic

**DESPUMOL CWN**
- mineral oil based, non-ionic
UKANOL

**UKANOL 18**
- polymer, non-ionic, liquid
- suitable for polymer dispersions
- good wetting of pigments
- good stabilisation of pigment and dyestuff liquors
- little influence on hydrophobic properties

**UKANOL 41 N**
- acrylate-copolymer, liquid
- strong thickening effects
- particularly useful for hydrophobic formulations
- good electrolyte stability

**UKANOL 519**
- cellulose derivative, non-ionic
- water-soluble powder
- good electrolyte stability
- good stabilisation of pigment containing pastes

**UKANOL 794 NEW**
- thickening agent
- aqueous acrylate
- already in small quantities very effective
- suitable for waterproof coatings

**UKANOL 350 NEW**
- thickening agent
- acrylate-copolymer
- already in small quantities very effective
- no influence on the finishing effect
- padding and coating compounds
UKADAN

UKADAN 650
- self crosslinking acrylate, non-ionic
- soft films
- good pigment binding capability
- good wash durability
- high visible and UV light stability
- non yellowing up to 180°C

UKADAN 88
- self crosslinking acrylate, anionic
- medium-hard films, transparent
- good pigment binding capability
- high visible and UV light stability
- thermally stable up to 180°C

UKADAN 934
- self crosslinking acrylate, anionic
- medium-hard films
- good pigment binding capability
- good hydrophobic characteristics
- leaching and weathering durable
- high visible and UV light stability
- thermally stable up to 180°C

Technical textiles
Non marking handle modification

Technical textiles
Tentage fabrics
Glass textiles
Automotive

Technical textiles
Tentage fabrics
<table>
<thead>
<tr>
<th>Product</th>
<th>Features</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UKADAN 2170</strong></td>
<td>polyurethane dispersion, anionic, soft films, transparent, hydrolysis stable effects, high visible and UV light stability, good wash durable effects</td>
<td>Technical textiles, Automotive</td>
</tr>
<tr>
<td><strong>UKADAN PUW</strong></td>
<td>polyurethane dispersion, anionic, soft films, thermo-weldable and pleat formation, hydrolysis stable effects, good light stability</td>
<td>Technical textiles, Automotive</td>
</tr>
<tr>
<td><strong>UKADAN 1100 NEW</strong></td>
<td>polyester resin, limited flammability, clear and hard film formation, good light stability, use for textiles with requirements acc. to FMVSS 302</td>
<td>Technical textiles, Non-wovens, Automotive, PES fabrics</td>
</tr>
<tr>
<td><strong>UKADAN VP 9106 NEW</strong></td>
<td>anti-slip finishing, polymer dispersion, durable against fine washes, printing and coating methods, combinable with polymer dispersions</td>
<td>Home textiles, Technical textiles, Carpets</td>
</tr>
</tbody>
</table>
UKALIT

**UKALIT G 42/149**
- polyvinylchloride-copolymer, non-ionic
- soft film forming, transparent
- low flammability thus especially useful in FR formulations
- good pigment binding capability
- good hydrolysis resistance

**UKALIT L 17**
- terpolymer, non-ionic
- good pigment binding capability
- forms flexible films
- high visible and UV light stability
- no yellowing up to 160°C

Technical textiles
Glass textiles
Automotive
CROSSLINKING AUXILIARIES

UKADAN

UKADAN 336
- melamine resin crosslinker for all fibre types
- improves wash durability of fluorocarbon finishes

UKADAN VR 3105
- low formaldehyde containing reactive crosslinker
- improves wash durability and oleophobic properties of fluorocarbon finishes
- good running properties
- light- and weather stable

UKADAN VP 3115
- low formaldehyde containing acrylic crosslinker
- good adhesion on glass
- good thermal stability
- good solvent stability
- good oil resistance

Technical textiles
Glass

Technical textiles
High-end finishing

Technical textiles
Glass
SILASTOL

**SILASTOL SOFT 400 – SERIES**
- Hydrophilic cationic softeners based on quaternary silicones
- Available as micro emulsion
- Improves sewability
- Good soft flowing handle
- Good over dye/over print effects
- Good wash and dry cleaning durability
- No tendency to yellowing

**SILASTOL SOFT 100 – SERIES**
- Hydrophilic non-ionic softeners based on polyglycols and polyethers
- Available as micro emulsion
- Good rewetting
- No tendency to yellowing

**SILASTOL AE 100 – SERIES**
- Non-ionic amino-silicone elastomers
- Suitable for all fibre types
- Available as micro, macro or a blend of micro and macro emulsion
- Self-crosslinking
- No tendency to yellowing

For more information please have a look at the SOFTENERS flyer. Get in contact with us directly under: textile@schillseilacher.de
POLYFIX

POLYFIX N-FC
- phosphoric acid ester, anionic
- good effects on all synthetic fibre types
- high visible and UV light stability
- little effect on fabric handle
- no effect on dyed shades
- non durable finishing

Decoration fabrics

SILASTOL 1789 K NEW
- antistatic additive
- increases fibre/fibre cohesion
- good wetting and spreading characteristics
- non yellowing
- combination with fibre lubricant
- easily washed out

Fibre antistatica

AP 8208/03 NEW
- compound for conductive coatings
- flexible handle
- good substrate adhesion

Technical textiles
## SPECIALITIES

### PERLASTAN

**PERLASTAN O**
- N-oleyl sarcosine
- yellow-brown liquid
- anionic
- low content of free fatty acids
- Corrosion inhibitor
- Lubricant
- Metal treatment

**PERLASTAN OCV**
- N-oleyl sarcosine
- yellow-brown liquid
- anionic
- Lubricant
- Cleaning products
- Detergents
- Metal treatment
- Construction chemistry
- Flotation reagent

**PERLASTAN OCP**
- plant-based alternative of PERLASTAN OCV
- approved by FDA/USA for use in blending lubricants with incidental food contact (HX-1 registered)
- Cleaning products
- Detergents
- Agrochemicals

### UKANOL

**UKANOL OAC 200 NEW**
- odour absorber
- water soluble
- compatible with non-ionic and anionic surfactant systems
- Universal use
- Technical textiles

**UKANOL RUN NEW**
- additive to finishing compounds
- improvement for roller running
- Technical textiles
SILAPHOS MDE N4
- phosphoric acid mono-/diester of butanol
- liquid
- stable in alkaline medium
- low foam development
- stable in hard water

SILAPHOS MDE F9
- phosphoric acid mono-/diester of a C8/10-alcohol
- liquid
- strong emulsifying and dispersing properties
- high cleaning efficiency
- stable in alkaline medium
- low foam development
- corrosion inhibitor

SILAPHOS MDE 104
- phosphoric acid mono-/diester of an ethoxylated C-10 fatty alcohol
- liquid
- stable in alkaline medium
- good emulsifying properties
- good wetting properties

SILAPHOS MDE S138
- phosphoric acid mono-/diester of an ethoxylated iso-C-13 fatty alcohol
- liquid
- strong wetting and dispersing properties
- stable in alkaline and acidic medium
- metal deactivator
- effective corrosion prevention

SILAPHOS
- Emulsifier
- Antistatic agent
- Wetting agent
- Neutral and alkaline cleaners
- Corrosion inhibitor
- Antistatic agent
- Additive textiles
- Cleaning products
- Detergents
- Agrochemicals
- Fuel additive
- Cleaning products
## SCHILL + SEILACHER AT A GLANCE

### BOEBLINGEN
**Speciality Chemicals for:**
- Fibres
- Textiles
- Leather
- Paper
- Cosmetics
- Fine Chemicals

**Certifications:**
- DIN EN ISO 9001:2015
- DIN EN ISO 14001:2015
- DIN EN ISO 50001:2011
- RSPO Certification Mass Balance

### HAMBURG
**Speciality Chemicals for:**
- Rubber Additives
- Antifoams
- Epoxy Prepolymers
- And Flame Retardants
- Latex Additives
- Silicones
- Release Agents

**Certifications:**
- DIN EN ISO 9001:2015
- DIN EN ISO 14001:2015
- DIN EN ISO 50001:2011

### PIRNA
**Speciality Chemicals for:**
- Silicones
- PU Industry
- Textiles
- Paper
- Cosmetics
- Fibres
- Leather

**Certifications:**
- DIN EN ISO 9001:2015
- (Only for Boeblingen Products)

### HUDSON / OHIO / USA
**Producer of:**
- Nanofibre Matrices

**Certifications:**
- DIN EN ISO 9001:2015
- DIN EN ISO 13485:2003

### STOW / OHIO / USA
**Villa Rica / Georgia / USA**
**Speciality Chemicals for:**
- Plastics
- Wood Composites
- Rubber
- Leather

**Certifications:**
- DIN EN ISO 9001:2008
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We also advise you, that any further processing and the distribution of the further processed products is part of the customers sole scope of responsibilities as the producer of the new product.
Any Questions?
Our service team will be pleased to answer any questions and to assist you with advice and information at all times. We can also advise you of the contact data of our local offices and agencies. Data sheets and samples of our products are available upon request.

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