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Chemical additives from Schill+Seilacher help furnish the paper and cardboard - especially their surfaces - with the desired properties. For the purpose of refining the paper, tailor-made additives in combination with suitable application methods ensure the, among other things, water-repellent barriers in vegetable packaging, brilliance and smoothness in high-quality advertising brochures, and the absorbent surface of paper towels.

We support our customers in the development of applications and guarantee a fast, efficient availability of products and information.
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!
CHEMISTRY OF THE FUTURE

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.

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.
# UKAPHOB-SERIES

<table>
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<tr>
<th>Product</th>
<th>Properties</th>
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<tr>
<td><strong>UKAPHOB HR 530</strong></td>
<td>- Extreme water repellent effect and water barrier&lt;br&gt;- Highly water dilutable&lt;br&gt;- Withstands conditions in corrugator&lt;br&gt;- Ammonia free formulation</td>
</tr>
<tr>
<td><strong>UKAPHOB L 496</strong></td>
<td>- Extreme good barrier properties against oil/fat/grease&lt;br&gt;- Highly water dilutable&lt;br&gt;- To greatest possible extent blocking free&lt;br&gt;- Withstands conditions in corrugator</td>
</tr>
<tr>
<td><strong>UKAPHOB 5000</strong></td>
<td>- Extreme good barrier properties against oil/fat/grease&lt;br&gt;- To greatest possible extent blocking free&lt;br&gt;- Extremely heat resistant in drying phase&lt;br&gt;- Increased viscosity, suitable for blade coating method</td>
</tr>
<tr>
<td><strong>UKAPHOB 5100</strong></td>
<td>- Very good barrier properties against oil/fat/grease&lt;br&gt;- Less slippery surface&lt;br&gt;- No characteristic smell when dried, therefore suitable for odour-sensitive goods e.g. chocolate, butter</td>
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## UKADUR-SERIES

<table>
<thead>
<tr>
<th>Product</th>
<th>Features</th>
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| **UKADUR MP 100** | - Hard coating, coating protects the packaging  
                    - Very good scratch resistance  
                    - Relatively high gloss  
                    - Highly temperature stable |
| **UKADUR MP 200** | - Soft coating, coating protects the goods  
                    - Water dilutable  
                    - Mixable with a huge range of water based pigment inks  
                    - Glueable with water based glues |
| **UKADUR HSB 3** | - Very good heat sealability  
                    - Suitable for highly compacted paper grades  
                    - Good hydrophobicity and oleophobicity  
                    - Good barrier against water vapor  
                    - Suitable for direct food contact |
| **UKADUR HSW 99** | - Very good heat sealability  
                    - For technical applications |
| **UKADUR 9533** | - Extreme water repellent effect and water barrier  
                    - Highly water dilutable  
                    - Withstands conditions in corrugator  
                    - Ammonia free formulation |
## UKAPHOB 5200-SERIES

### UKAPHOB 5200
- Extreme friction/non-slip effect
- Extreme water repellent effect
- Extreme water barrier

### UKAPHOB 5201
- Very good friction/non-slip effect
- Good water repellent effect
- Velvety feel, soft-touch effect
- Printable with flexographic printing method

### UKAPHOB 5400
- Very good friction
- Nest water repellent effect
- Non-blocking, non-locking
- Highly heat resistant coating

### UKAPHOB 5410
- Very good friction
- Very good water repellent effect
- Highest heat resistance of all non-slip coatings
- Non-blocking
# UKAPRINT-SERIES

## UKAPRINT FP 100
- Good friction, non-slip effect
- Over-printable with water based inks
- Velvety feel, soft-touch effect
- Highly water dilutable

## UKAPRINT FP 510
- Excellent water repellent effect/water barrier
- Very good fat/grease barrier
- Water dilutable

## UKAPRINT FP 530
- Good water repellent effect
- Excellent water barrier
- Very good release effect against sticky goods
- Highly heat resistant e.g. for high-temperature drying in corrugators
- Non-blocking
# DEFOAMING-SERIES

## DESPUMOL-SERIES

<table>
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<tr>
<th><strong>DESPUMOL 2052</strong></th>
<th>Defoamer/Deaerator for wet-end dosage and coating</th>
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| **DESPUMOL 2072** | Highly efficient defoamer for coatings  
Wet end application |
| **DESPUMOL 2070** | Highly efficient defoamer for coatings |
| **DESPUMOL 2071** | Highly efficient defoamer for coatings and pigment coating colours  
For most difficult foaming problems |
| **DESPUMOL CWN** | Universal defoamer for wet-end, coating as well as  
Waste water treatment |
## UKACROSS / UKASOL / EVOCOAT-SERIES

| UKACROSS 87 A 10005 | ■ Increased resistance against wet rub-off stress  
■ No increase of pigment coating colour viscosity  
■ Water-free, formaldehyde-free formulation  
■ Chemical cross-linking |
|---------------------|-------------------------------------------------|
| UKACROSS ZC         | ■ Formaldehyde-free formulation  
■ Physical cross-linking |
| EVOCOAT 4610        | ■ Natural binder rheology modifier  
■ Excellent water retention  
■ Non thermoplastic  
■ Formaldehyde scavenger |
## UKADUR X-SERIES

### UKADUR X 403
- Economical, efficient flame retardant
- Low tendency to temperature indicated yellowing

### UKADUR X 404
- Efficient flame retardant agent
- Low tending to temperature indicated yellowing
- Good penetration into the base substrates

### UKADUR X 45
- Very efficient flame retardant
- Highly penetrative

### UKADUR X 50
- Very efficient flame retardant
- Highly penetrative
- Less corrosive
- Very low tendency to temperature indicated yellowing

### UKADUR X 501
- Economical, efficient flame retardant
- Less corrosive
- Very low tendency to temperature indicated yellowing
## UKADUR X-SERIES

### UKADUR X 20
- Low hygroscopicity of treated substrates
- Lowest tendency to temperature indicated yellowing

### UKADUR ATX 1
- Penetration aid for flame retardants
- For paper/carton grades of increased grammage
- For the use with sized substrates

### UKADUR XS 450
- For re-hydrophobing of substrates
- Can be used in combination with flame retardants

### UKADUR XS 451
- Combination with flame retardants
- Hydrophobic agent
- Overprintable
UKAPHOB/POLYFIX SPECIALITIES

**UKAPHOB BC 100**
- Efficient primer for various coating products
- Excellent hold-out properties
- Water dilutable
- Extreme shear-stable

**UKAPHOB BB 100**
- Bacteriostatic coating
- Direct food contact
- Avoids bacteria growth on coated surfaces

**POLYFIX AT 1**
- Conductive/dissipative coating
- For packaging of electronics
- To be used in combination with a primer
**EVORAL**

**EVORAL AST**
- Lubricant and glossy agent for pigment coating colours
- Improvement of water retention of pigment coating formulations
- Increase of volume of the coating

**EVORAL E 172**
- Hydrophobic agent for surface application
- Anionic, good compatibility with starch, guar and other natural film formers
LOCATIONS.

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

**PIRNA**
**GERMANY**
- DIN EN ISO 9001:2015

**HAMBURG**
**GERMANY**
- DIN EN ISO 9001:2015
- DIN EN ISO 14001:2015
- DIN EN ISO 50001:2011

**STOW**
**USA**
- DIN EN ISO 9001:2008

**VILLA RICA**
**USA**
- DIN EN ISO 9001:2015
- DIN EN ISO 14001:2015
- DIN EN ISO 50001:2011
- RSPO Certification Mass Balance

- **Spin finished for man-made fibres**
- **Chemicals for technical textiles**
- **Leather chemicals**
- **Paper chemicals**
- **Cosmetic, H&I, special chemicals**

- **Silicones**
- **PU industry**
- **Paper**
- **Textiles**
- **Cosmetics**
- **Fibres**
- **Leather**

- **Rubber additives**
- **Antifoams**
- **Reactive polymers & flame retardants**
- **Latex additives**
- **Silicones**
- **Release agents**

- **Rubber additives**
- **Plastic additives**
- **PVC additives**
- **Engineered thermoplastic additives**
- **Wood plastic**
- **Composite additives**
- **Leather chemicals**

- **Rubber additives**
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