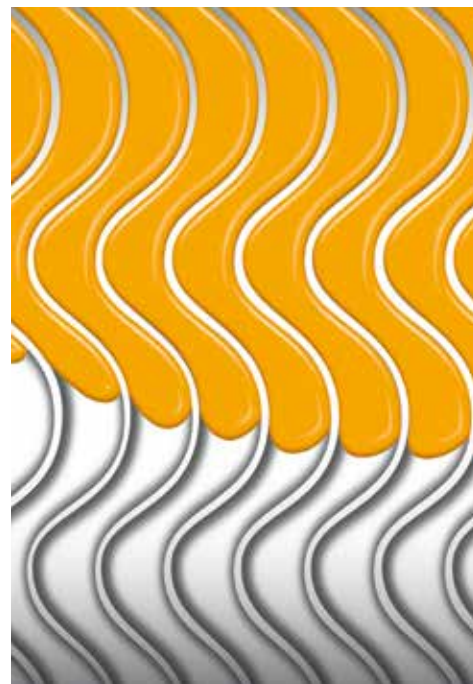


# PAPER

PRODUCTS FOR THE PAPER  
MANUFACTURING AND  
SURFACE TREATMENT

**Schill+Seilacher**  
**struktol®**

SOLUTIONS | TAILORMADE | WORLDWIDE



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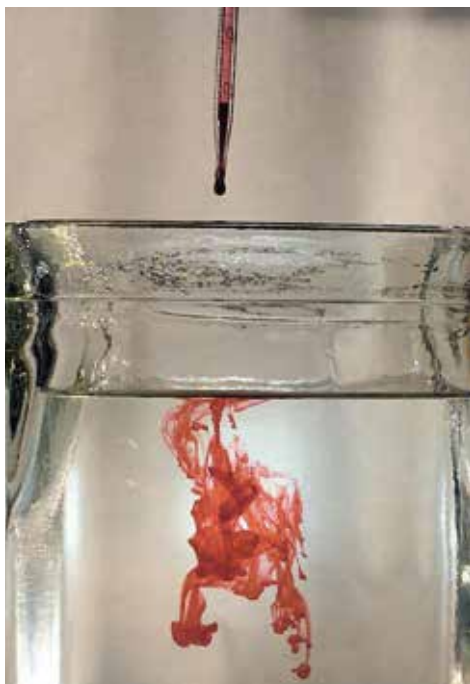
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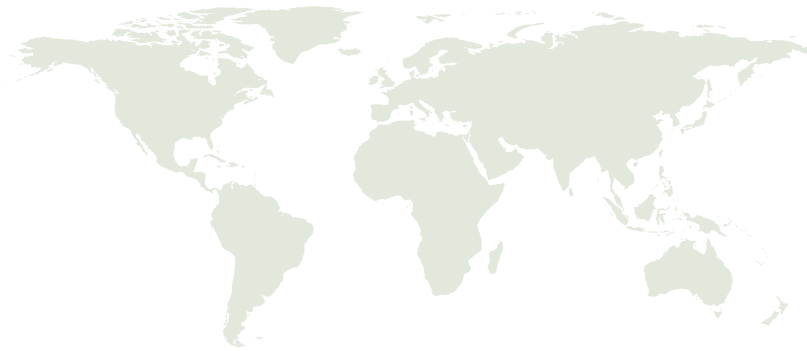
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**PRODUCTS FOR THE PAPER MANUFACTURING  
AND SURFACE TREATMENT**

**CUSTOMISED PRODUCTS  
DEVELOPED TO SUIT THE  
APPLICATION PROCESS**



## THE ART OF PAPERMAKING AND REFINING

**THE USE OF PAPER HAS ACCOMPANIED THE EVOLUTION OF MANKIND THROUGH THE MILLENNIA LIKE HARDLY ANY OTHER TRADE. EVEN IN THE AGE OF ELECTRONIC DATA TRANSFER, PAPER IS STILL AN INDISPENSABLE MATERIAL FOR WRITING AND PRINTING, FOR PACKAGING AND HYGIENE.**

Chemical additives from Schill+Seilacher provide paper and cardboard – in particular the surfaces – with the characteristics required for each case. For paper refining, customised additives to suit the application processes provide features such as water-repellent barriers in packaging, gloss and smoothness for high-quality publications and anti-slip coatings for safe transport.

We actively support our customers with application development using our wide range of experience with a great variety of technologies, raw materials and market requirements. Our internal and external application engineers put considerable effort into this, supported by highly committed employees working to perfect customised solutions in modern laboratories with the highest level of competence.

## FROM HUMBLE ROOTS IN LEATHER PROCESSING CHEMICALS ...



**SCHILL+SEILACHER'S STORY BEGAN IN 1877, WHEN KARL SCHILL  
AND CHRISTOPH SEILACHER STARTED MANUFACTURING CHEMICALS  
FOR LEATHER PROCESSING IN HEILBRONN, GERMANY.**

**IN 1925 SCHILL+SEILACHER OPENED A SECOND PRODUCTION SITE**

# 1877

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 18.

## UKAPHOB 5200-SERIES

### Ukaphob 5200

- Extreme friction/non-slip effect
- Extreme water repellent effect
- Extreme water barrier

### Ukaphob 5205

- 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
- Best water repellent effect
- Non-blocking, non-locking
- Highly heat resistant coating

### Ukaphob 5500

- 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 202

- Extreme good friction
- Very good water repellent effect
- To the greatest possible extent water dilutable

### Ukaprint FP 510

- Excellent water repellent effect/ water barrier
- Very good fat/grease barrier
- Water dilutable

### Ukaprint FP 501

- 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

## UKAPHOB-SERIES

### Ukaphob HR 530

- Extreme water repellent effect and water barrier
- Highly water dilutable
- Withstands conditions in corrugator
- Ammonia free formulation

### Ukaphob L 496

- Extreme good barrier properties against oil/fat/grease
- Highly water dilutable
- To greatest possible extent blocking free
- Withstands conditions in corrugator

### Ukaphob 5010

- Good water repellent effect, release effect
- Highly water dilutable
- Extremely heat resistant in drying phase
- To greatest possible extent blocking free

### Ukaphob 5000

- Extreme good barrier properties against oil/fat/grease
- To greatest possible extent blocking free
- Extremely heat resistant in drying phase
- Increased viscosity, suitable for blade coating method

### Ukaphob 5100

- Very good barrier properties against oil/fat/grease
- Less slippery surface
- No characteristic smell when dried, therefore suitable for odor-sensitive goods e.g. chocolate, butter

## UKADUR-SERIES

### 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 good barrier against water, water vapor, grease/oil
- Low viscosity

### UKACROSS/UKASOL-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

#### Ukasol AZC

- Formaldehyde-free formulation
- Physical cross-linking



## DESPUMOL-SERIES

### Despumol 2052

- Defoamer/Deaerator for wet-end dosage and coating

### Despumol 2060

- Highly efficient defoamer for coatings

### Despumol 2070

- Highly efficient defoamer for coatings

### Despumol 2071

- Highly efficient defoamer for coatings & pigment coating colours
- For most difficult foaming problems

### Despumol CWN

- Universal defoamer for wet-end, coating as well as
- waste water treatment

## UKADUR X-SERIES

### Ukadur X 403

- Economical, efficient flame retardant
- Low tendency to temperature indicated yellowing

### 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 XFR 501

- Flame retardant for resins and binders

### Ukadur X 20

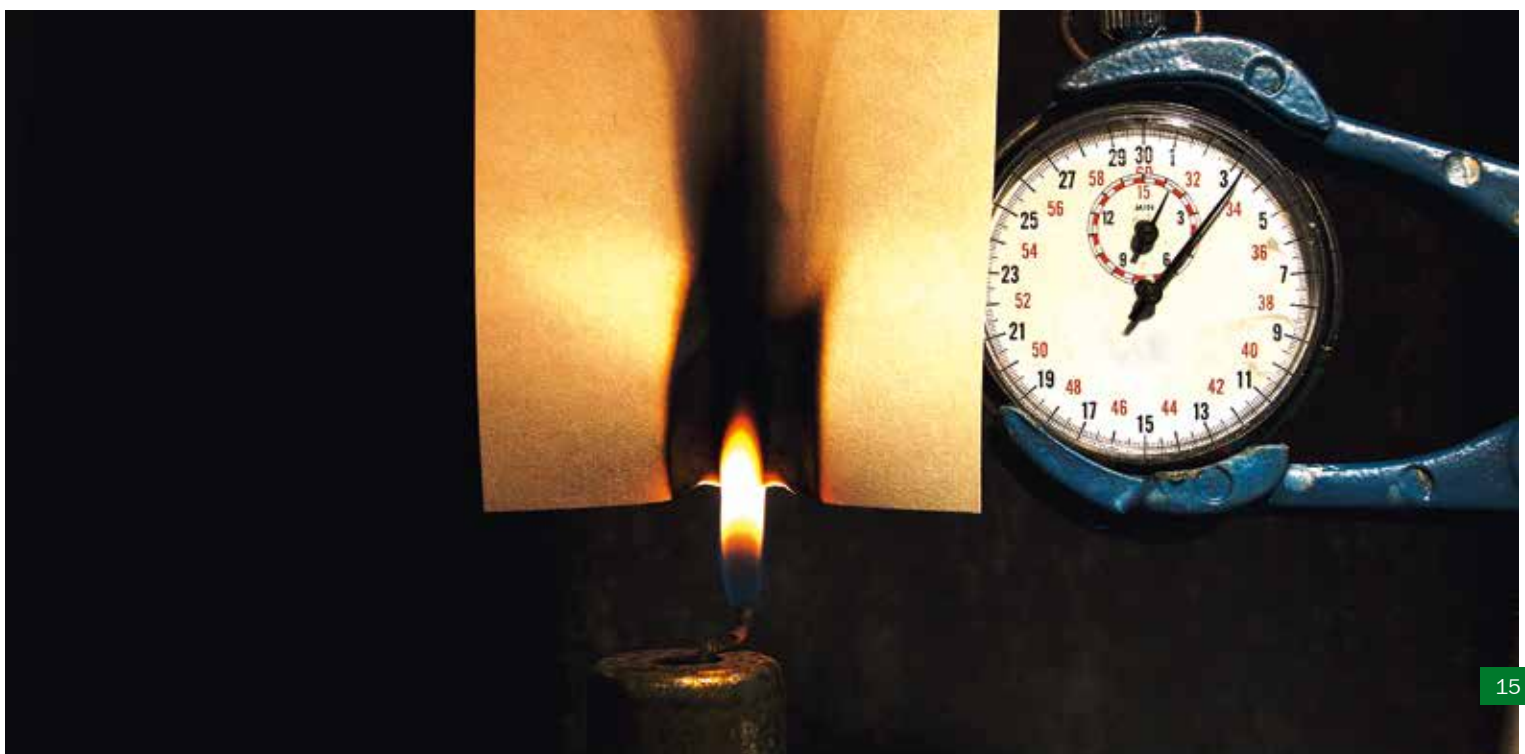
- Low hygroscopicity of treated substrates
- Lowest tendency to temperature indicated yellowing

### 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



### UKAPHOB/POLYFIX

#### 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

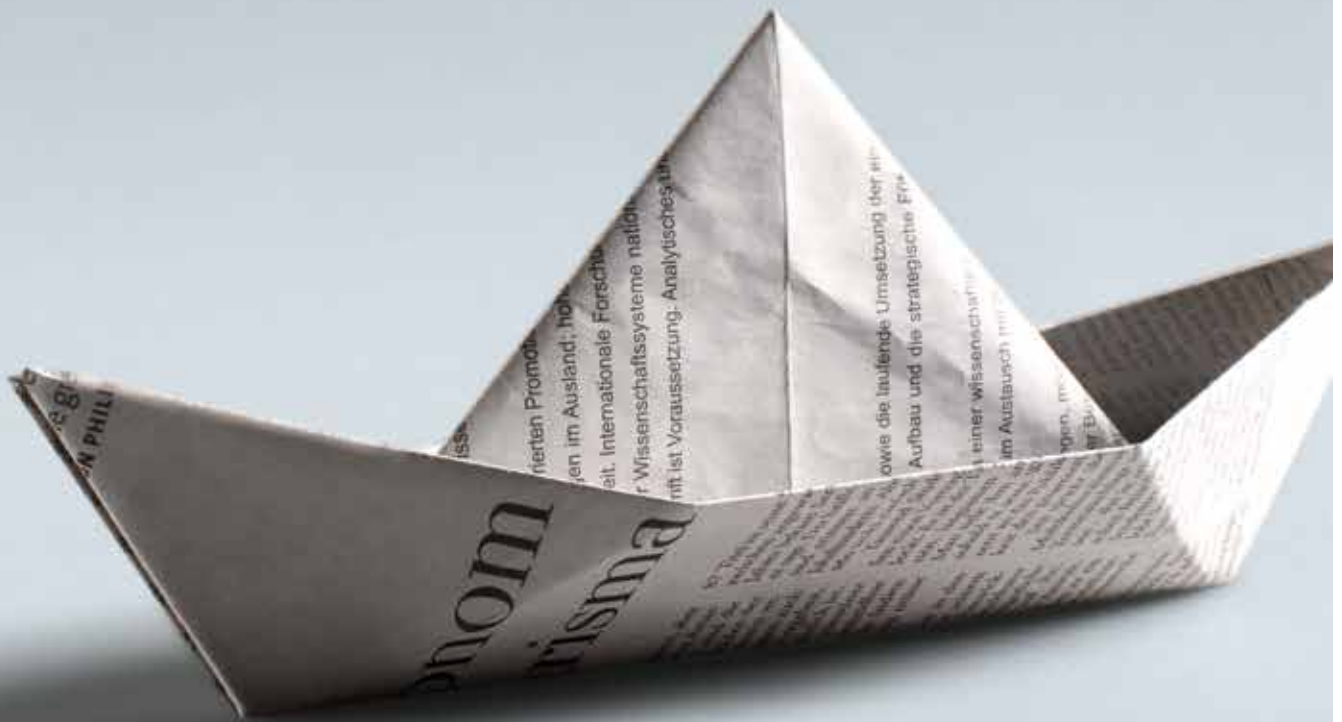
#### Evoral AST

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

#### Evoral 46 CC

- Lubricant and glossy agent for pigment coating colours
- Non-ionic





# SCHILL+SEILACHER AT A GLANCE

## → BOEBLINGEN

### SPECIALITY CHEMICALS FOR:

DIN EN ISO 9001:2015  
DIN EN ISO 14001:2015  
DIN EN ISO 50001:2011  
RSPO CERTIFICATION MASS BALANCE

FIBRES  
TEXTILES  
LEATHER  
PAPER  
COSMETICS  
FINE CHEMICALS



## → HAMBURG

### SPECIALITY CHEMICALS FOR:

DIN EN ISO 9001:2015  
DIN EN ISO 14001:2015  
DIN EN ISO 50001:2011

RUBBER ADDITIVES  
ANTIFOAMS  
EPOXY PREPOLYMERS  
AND FLAME RETARDANTS  
LATEX ADDITIVES  
SILICONES  
RELEASE AGENTS



## → PIRNA

### SPECIALITY CHEMICALS FOR:

DIN EN ISO 9001:2015  
(ONLY FOR BOEBLINGEN PRODUCTS)

SILICONES  
PU INDUSTRY  
PAPER  
TEXTILES  
COSMETICS  
FIBRES  
LEATHER



## → HUDSON / OHIO / USA PRODUCER OF:

DIN EN ISO 9001:2015  
DIN EN ISO 13485:2003

NANOFIBRE MATRICES



## → STOW / OHIO / USA VILLA RICA / GEORGIA / USA SPECIALITY CHEMICALS FOR:

DIN EN ISO 9001:2008

PLASTICS  
WOOD COMPOSITES  
RUBBER  
LEATHER



We at Schill+Seilacher "Struktol" GmbH have met all our REACH registration obligations for 2010 and 2013. We are still active in our consortia and have finished the registration process for the 2018 deadline. We also work closely with our suppliers to make sure that all our new raw materials are also REACH compliant. For further information, please contact our Regulatory Affairs Department at [REACH@struktol.de](mailto:REACH@struktol.de)

[WWW.SCHILLSEILACHER.DE](http://WWW.SCHILLSEILACHER.DE)

**Disclaimer:**

Above mentioned technical specifications rely on an analysis as of: 06.2018.

The mentioned attributes and application proposals are only non-binding application possibilities and application proposals for our products. Our advice and recommendations whether verbal, in writing or by way of tests do not excuse the customer from his or her own examination regarding the applicability for the intended procedures and purposes. The mentioned attributes and application proposals are no assurance for a certain further processing. Any assurances must be agreed upon explicitly and in writing between the customer and us.

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.

For more information please contact:

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