The company **SYNTHOS S.A.** grew out of the companies: Dwory S.A and Kaucuk a.s. The current name of the company - SYNTHOS derives from a fusion of two words of Greek origin, synthesis (join) and orthos (proper, right). The name reflects the nature of the company’s operations in chemical synthesis.

The business activities of **SYNTHOS S.A.** are focused on the following product groups:

- Synthetic rubbers
- Styrenics
- Acrylic and vinyl dispersion adhesives
- Liposomes
- Styrene-butadiene latex
- Plant protection products
- Synthetic rubbers
- Acrylic and vinyl dispersions
- Liposomes

**SYNTHOS S.A.** is the largest European manufacturer of synthetic rubber and expandable polystyrene (EPS). The dynamic development of the company in the recent years has resulted in an enterprise that is capable of competing with global chemical corporations and launching modern products of very high quality on the market.

**SYNTHOS S.A.** places strong emphasis on the quality and effectiveness of its customer service and development of innovative products. Use of ecological-based technologies is one of our priorities. Our efforts have resulted in the implementation of a certified Integrated Quality, Environment, Safety and Health Management System.

**Papermax® adhesives** are the perfect choice for the following applications:

- Laminating
- Cardboard packages
- Paper bags
- Cardboard tubes
- Hygienic papers
- Paper straws
- Flocking
- Bookbinding
- Difficult surfaces bonding
- Angles
- Cardboard pallets
- Honeycomb
- Plasterboards

**Synthos Adhesives** are dedicated to packaging and printing industries under the Papermax brand, as well as to woodworking industry under the Woodmax brand. The products produced by us are the No. 1 product on the Polish market.

**Papermax® adhesives** are produced on the basis of polyvinyl acetate emulsion, vinyl acetate copolymer with ethylene, vinyl polyalcohol, acrylic copolymer and also on the basis of synthetic resin. They do not include solvents and are ready for immediate use. In our offer, we have adhesives that are filled and unfilled, colored or with the addition of UV.
### ADHESIVE | BROOKFIELD VISCOSITY [mPa•s] | FEATURES | APPLICATION
--- | --- | --- | ---
**PAPERMAX® CR/W/P-8** | 3 000 ÷ 8 000 | • short setting time  
• little filled and flexible joint  
• good initial tack | roller

**PAPERMAX® CR/W/W-46** | 2 700 ÷ 3 300 | • suitable for high speed lines  
• long open time  
• flexible joint | roller

**PAPERMAX® CR/S/40** | 4 000 ÷ 10 000 | • perfect adhesion on regular surfaces  
• transparent joint  
• medium flexible joint | roller

**PAPERMAX® CR/S-1** | 900 ÷ 1200 | • short open time  
• perfect adhesion on regular surfaces  
• perfect for nozzle application | nozzle

**PAPERMAX® CR/S-1S** | 500 ÷ 1200 | • long open time  
• perfect adhesion on regular surfaces  
• perfect for nozzle application | roller

**PAPERMAX® CR/S-3K** | 2 100 ÷ 2 300 | • good initial tack  
• short curing time  
• flexible joint | nozzle, wheel

**PAPERMAX® CR/S-5K** | 4 000 ÷ 6 000 | • perfect for nozzle application  
• good initial tack  
• short curing time  
• flexible joint | nozzle, wheel

**PAPERMAX® CR/S-3/K/M Midline** | 3 000 ÷ 4 000 | • perfect adhesion on regular surfaces  
• transparent joint  
• reduced curling effect | roller

**PAPERMAX® CR/S-2/35/T** | 1 800 ÷ 2 800 | • long open time  
• short curing time  
• possibility of foaming | roller

**PAPERMAX® CR/S-5/40** | 4 000 ÷ 6 000 | • perfect for nozzle application  
• good initial tack  
• short curing time  
• flexible joint | nozzle

**PAPERMAX® CR/S-46** | 4 000 ÷ 6 000 | • perfect for nozzle application  
• good initial tack  
• short setting time | nozzle

**PAPERMAX® CR** | 30 000 ÷ 65 000 | • for manual application  
• very high efficiency  
• flexible joint | nozzle, wheel, roller
**Paper bags**

**features**
- high flexible joint
- short setting time
- long open time

**application**
- wheel, roller

**ADHESIVE**
- **PAPERMAX® CR/3/K/M 55%**
  - 2,500 ÷ 3,500
  - high flexible joint
  - short setting time
  - long open time

**ADHESIVE**
- **PAPERMAX® CR/S-25**
  - 20,000 ÷ 30,000
  - high flexible joint
  - short setting time
  - long open time

**ADHESIVE**
- **PAPERMAX® CR/S/40**
  - 4,000 ÷ 10,000
  - multipurpose
  - short setting time
  - medium flexible joint

**ADHESIVE**
- **PAPERMAX® CR**
  - 30,000 ÷ 65,000
  - multipurpose
  - very high efficiency
  - available in a wide viscosity range

**Cardboard tubes**

**features**
- multipurpose
- perfect for small diameter paper tubes
- suitable for high speed lines

**application**
- cascade

**ADHESIVE**
- **PAPERMAX® Winibor SM**
  - 1,900 ÷ 2,500
  - multipurpose
  - perfect for small diameter paper tubes
  - suitable for high speed lines

**ADHESIVE**
- **PAPERMAX® Winibor HS**
  - 1,000 ÷ 1,400
  - suitable for high speed lines
  - short setting time
  - first and last layer bonding

**ADHESIVE**
- **PAPERMAX® Winibor SP/L**
  - 1,100 ÷ 1,300
  - suitable for high speed lines
  - hard joint
  - first and last layer bonding

**ADHESIVE**
- **PAPERMAX® CR/W/K-45**
  - 3,500 ÷ 4,500
  - suitable for high speed lines
  - medium flexible joint
  - for first and last ply bonding

**ADHESIVE**
- **PAPERMAX® Winibor WS**
  - 800 ÷ 1,100
  - even spread
  - hard joint
  - perfect for all layers bonding

**ADHESIVE**
- **PAPERMAX® CR 5/02/45/01**
  - 2,300 ÷ 2,600
  - suitable for high speed lines
  - medium flexible joint
  - ply bonding

**ADHESIVE**
- **PAPERMAX® CR S/02/45/01**
  - 2,300 ÷ 2,600
  - suitable for high speed lines
  - medium flexible joint
  - ply bonding
## Angles

<table>
<thead>
<tr>
<th>ADHESIVE</th>
<th>BROOKFIELD VISCOSITY [mPa•s]</th>
<th>FEATURES</th>
<th>APPLICATION</th>
</tr>
</thead>
</table>
| PAPERMAX® Winibor S | 1,500 ÷ 2,500 | • medium flexible joint  
                      • even spread                              | cascade     |
| PAPERMAX® Winibor   | 500 ÷ 2,500    | • suitable for medium speed lines  
                      • hard joint  
                      • multipurpose                               | cascade     |

## Cardboard pallets

<table>
<thead>
<tr>
<th>ADHESIVE</th>
<th>BROOKFIELD VISCOSITY [mPa•s]</th>
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<th>APPLICATION</th>
</tr>
</thead>
</table>
| PAPERMAX® CR/W/P-6 | 3,000 ÷ 8,000 | • short setting time  
                      • little filled and flexible joint  
                      • high initial tack                | wheel       |
| PAPERMAX® CR/S/40 | 4,000 ÷ 10,000 | • medium flexible and transparent joint  
                      • multipurpose                       | wheel       |
| PAPERMAX® CR/S-05 | 900 ÷ 1,000    | • short setting time  
                      • even spread                          | nozzle      |

## Honeycomb

### Core bonding

<table>
<thead>
<tr>
<th>ADHESIVE</th>
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<th>APPLICATION</th>
</tr>
</thead>
</table>
| PAPERMAX® CR/S/38 HC | 2,000 ÷ 2,500 | • short setting time  
                      • flexible and transparent joint  
                      • suitable for high speed lines      | roller      |
| PAPERMAX® CR/W/W-45 | 2,000 ÷ 2,300 | • medium flexible joint  
                      • short setting time                  | nozzle, roller |
| PAPERMAX® CR/WP-2 | 1,500 ÷ 2,000 | • flexible joint  
                      • suitable for medium speed lines      | roller      |
| PAPERMAX® CR S/03/55/01 | > 3,000 | • clean application – clean running  
                      • suitable for high speed lines      | roller      |

### Laminating

<table>
<thead>
<tr>
<th>ADHESIVE</th>
<th>BROOKFIELD VISCOSITY [mPa•s]</th>
<th>FEATURES</th>
<th>APPLICATION</th>
</tr>
</thead>
</table>
| PAPERMAX® CR/W/P-8 | 3,000 ÷ 8,000 | • short setting time  
                      • little filled and flexible joint  
                      • high initial tack                | roller      |
| PAPERMAX® CR/S/40 | 4,000 ÷ 10,000 | • medium flexible and transparent joint  
                      • multipurpose                       | roller      |
# Bookbinding

<table>
<thead>
<tr>
<th>ADHESIVE</th>
<th>BROOKFIELD VISCOITY [mPa.s]</th>
<th>FEATURES</th>
<th>APPLICATION</th>
</tr>
</thead>
</table>
| PAPERMAX® CR | 30 000 ÷ 65 000 | • perfect for manual application  
• very high efficiency  
• flexible joint | nozzle, wheel, roller |
| PAPERMAX® CR LUX | > 65 000 | • perfect for manual application  
• very high efficiency  
• flexible joint | wheel, roller |
| PAPERMAX® CR/M-10 | 8 000 ÷ 16 000 | • perfect for manual application  
• suitable for difficult surfaces  
• flexible joint | wheel, roller |
| PAPERMAX® CR 665.01 | 9 000 ÷ 12 000 | • perfect for manual application  
• suitable for difficult surfaces  
• flexible joint | wheel, roller |

# Difficult surfaces

<table>
<thead>
<tr>
<th>ADHESIVE</th>
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<th>FEATURES</th>
<th>APPLICATION</th>
</tr>
</thead>
</table>
| PAPERMAX® CR 665.01 | 9 000 ÷ 12 000 | • suitable for high speed lines  
• very high efficiency  
• flexible joint | wheel, roller |
| PAPERMAX® CR 655.01 | 6 000 ÷ 10 000 | • suitable for PU foam bonding  
• flexible joint  
• perfect for hard cover lamination | wheel, roller |
| PAPERMAX® CR 645.01 | 4 000 ÷ 6 000 | • multipurpose  
• very high efficiency  
• flexible joint | wheel, roller |
| PAPERMAX® CR 715.01 | 1 600 ÷ 2 200 | • window pasting  
• plastic bags pasting  
• flexible joint | nozzle |
| PAPERMAX® CR 605.01 | 1 100 ÷ 1 300 | • recommended by Baumer hhs GmbH  
• suitable for high speed lines  
• very high efficiency | nozzle |
### Hygenic papers

**cardboard tubes**

<table>
<thead>
<tr>
<th>ADHESIVE</th>
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<th>APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAPERMAX® CR/5/40</td>
<td>4 000 ÷ 10 000</td>
<td>suitable for high speed lines, multipurpose</td>
<td>roller</td>
</tr>
<tr>
<td>PAPERMAX® CR/3/K/M 55 %</td>
<td>2 500 ÷ 3 500</td>
<td>suitable for high speed lines, flexible joint, no drying out</td>
<td>roller</td>
</tr>
<tr>
<td>PAPERMAX® Winibor SM</td>
<td>1 900 ÷ 2 500</td>
<td>multipurpose, suitable for high speed lines</td>
<td>roller</td>
</tr>
<tr>
<td>PAPERMAX® Winibor S</td>
<td>1 500 ÷ 2 500</td>
<td>perfect for small diameter paper tubes, medium flexible joint</td>
<td>roller</td>
</tr>
</tbody>
</table>

### Paper straws

<table>
<thead>
<tr>
<th>ADHESIVE</th>
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<th>APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAPERMAX® CR/P5</td>
<td>6 000 ÷ 9 000</td>
<td>water resistant, in accordance with FDA and BfR, gluten-free</td>
<td>roller</td>
</tr>
<tr>
<td>PAPERMAX® CR 6/03/35/01</td>
<td>3 000 ÷ 3 800</td>
<td>water resistant, in accordance with FDA and BfR, gluten-free, high speed production lines</td>
<td>roller, nozzle</td>
</tr>
<tr>
<td>PAPERMAX® CR 6/04/45/01</td>
<td>4 500 ÷ 5 500</td>
<td>water resistant, in accordance with FDA and BfR, high speed production lines, gluten-free</td>
<td>nozzle, roller</td>
</tr>
<tr>
<td>PAPERMAX® CR 6/05/45/01</td>
<td>5 000 ÷ 8 000</td>
<td>water resistant, in accordance with FDA and BfR, high speed production lines, gluten-free</td>
<td>nozzle, roller</td>
</tr>
</tbody>
</table>

### Flocking

<table>
<thead>
<tr>
<th>ADHESIVE</th>
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<th>APPLICATION</th>
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</thead>
<tbody>
<tr>
<td>PAPERMAX® CR/10</td>
<td>8 000 ÷ 16 000</td>
<td>perfect adhesion on regular surfaces, flexible joint</td>
<td>nozzle</td>
</tr>
<tr>
<td>PAPERMAX® CR LUX</td>
<td>&gt; 65 000</td>
<td>perfect adhesion on regular surfaces, flexible joint</td>
<td>nozzle</td>
</tr>
</tbody>
</table>

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**ADHESIVE**

**BROOKFIELD VISCOSITY** [mPa•s]

**FEATURES**

**APPLICATION**
### Plasterboards

<table>
<thead>
<tr>
<th>ADHESIVE</th>
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<th>APPLICATION</th>
</tr>
</thead>
</table>
| PAPERMAX® Winibor | 500 ÷ 2 500                | • long open time  
• hard joint  
• suitable for medium speed lines | nozzle |
| PAPERMAX® CR/W/45 C | 1 300 ÷ 1 500              | • long open time  
• hard joint  
• suitable for medium speed lines | nozzle |
| PAPERMAX® CR/S/20  | 1 000 ÷ 1 500              | • long open time  
• transparent joint  
• suitable for high speed lines | nozzle |
| PAPERMAX® CR/S/40 SG | 13 000 ÷ 15 000          | • high quality joint  
• short setting time | nozzle |

### Cooperation

**We offer:**
- high quality adhesives
- technical support
- testing of adhesives and joints in laboratories (internal and external with international accreditation)
- developing new adhesive products, tailored to the customer’s requirements (tailor-made products)
- assistance in implementations and technical tests of new adhesives
- support in solving technical problems
- product testing

**In order to get further information, full offer and technical data please contact us:**

**Sales Department:** papermax@synthosgroup.com
www.synthosadhesives.com