


synthos



FORMULAS
FOR A BETTER
WORLD

papermax

HIGH QUALITY PAPER ADHESIVES

POLISH COMPANY WITH GLOBAL REACH

Synthos is a leading global chemical company with roots in Oświęcim, Poland. We produce synthetic rubber, styrenics, crop protection products and dispersions, latex and adhesives.

THE BUSINESS ACTIVITIES OF SYNTHOS S.A. ARE FOCUSED ON THE FOLLOWING PRODUCT GROUPS:



We are the second largest producer of synthetic rubber in the world. Over the years, we have also established ourselves as one of the leading European producers of expandable polystyrene and xps boards.



6 production plants in Poland, Czech Republic, Germany, the Netherlands, and France
3 research and development centers
over **3600 employees**
ISO/TUV, ISCC Plus certificates

HIGH QUALITY PAPER ADHESIVES

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. Our products are solvent-free and are ready for immediate use. Our offer includes adhesives that are either filled or unfilled, moreover the products can include colour pigmentation (for instance, sensitive to UV light).

GREEN DIRECTION

At Synthos, we provide solutions that help change the world. By introducing more innovative solutions and sustainable products, we can meet the growing expectations of customers while taking care of the world and its people.

In thinking about the sustainable development of the company, how to respond to the expectations of our business partners and take responsibility for the quality of life of future generations, we chose to adopt a sustainable development strategy for the Synthos Group until 2030 - EVERGREEN.

We believe that by investing in sustainable production and eco-friendly solutions, such as the use of green raw materials, we can prevent the negative changes in the world around us. In our research and development centers, we work on adhesives which can make a great contribution to the shift towards environmentally-friendly global economy.

Synthos has a wide portfolio of paper adhesives. Under the BIOSET brand, we offer bio-based adhesives in accordance with the biomass balance.

Some of the adhesives products are safe for the environment and for humans - selected are also biodegradable and compostable.



biodegradable



compostable



food contact approval



APPLICATION



lamination



cardboard packages



paper bags



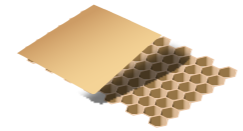
paper tubes



cardboard corner protectors



cardboard pallets



honeycomb



bookbinding



difficult surfaces bonding



hygienic papers



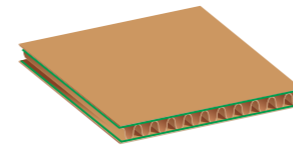
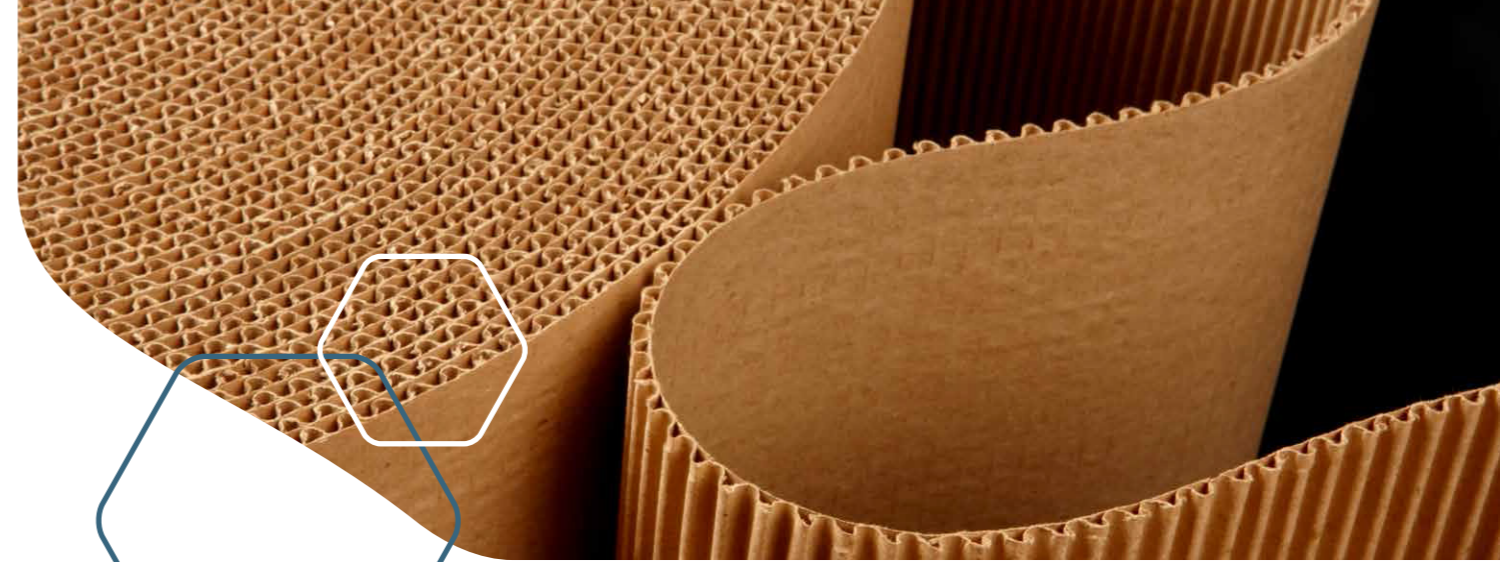
paper straws



flocking



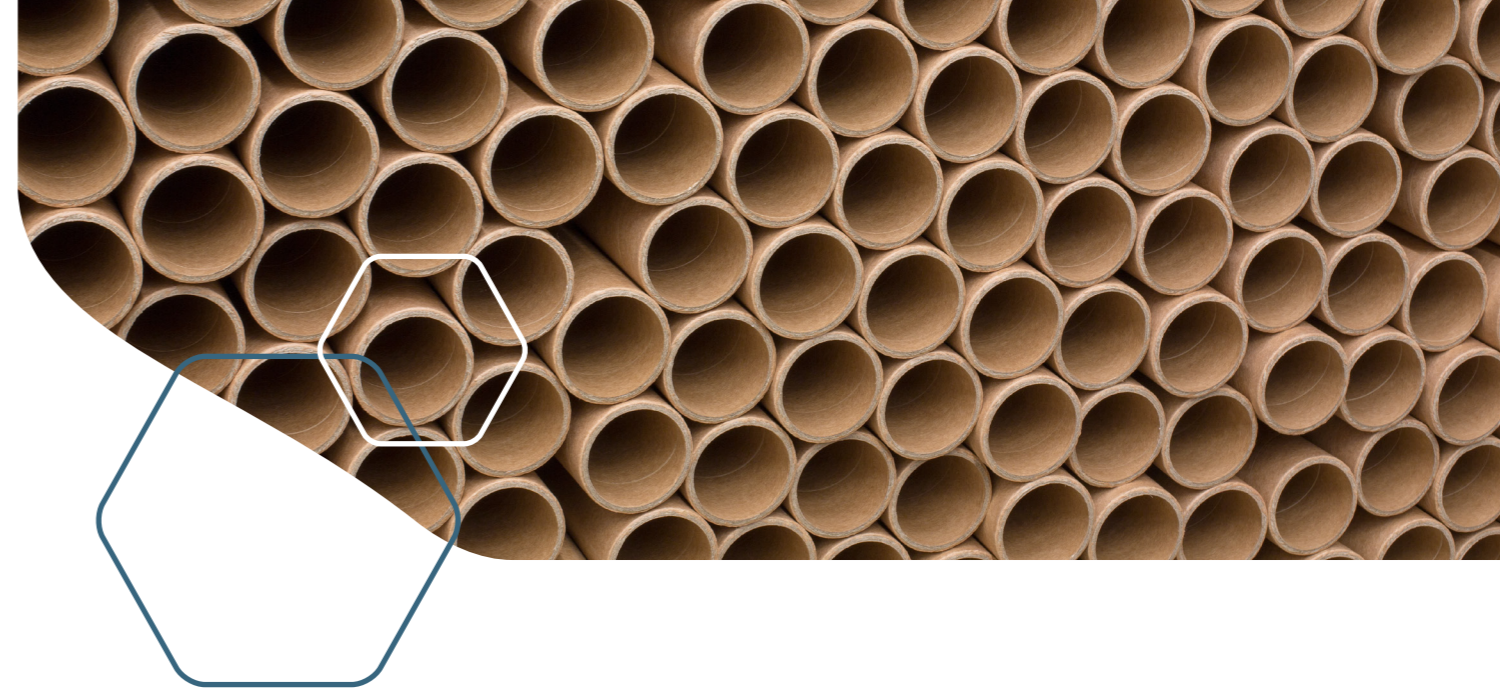
plasterboards



Lamination





ADHESIVE	VISCOSITY [mPa·s]	FEATURES	APPLICATION
PAPERMAX® CR/W/P-8	3 000 ÷ 8 000	<ul style="list-style-type: none"> • short setting time • low filler content and flexible joint • good initial tack 	roller
PAPERMAX® CR/W/W-46	2 700 ÷ 3 300	<ul style="list-style-type: none"> • suitable for high speed lines • long open time • flexible joint 	roller
PAPERMAX® CR/S/40	4 000 ÷ 10 000	<ul style="list-style-type: none"> • perfect adhesion on regular surfaces • transparent joint • medium flexible joint 	roller
PAPERMAX® CR/S-3/K/M Midline	3 000 ÷ 4 000	<ul style="list-style-type: none"> • perfect adhesion on regular surfaces • transparent joint • reduced curling effect 	roller
PAPERMAX® CR/S-5K	4 000 ÷ 6 000	<ul style="list-style-type: none"> • good initial tack • short curing time • reduced curling effect 	roller
PAPERMAX® CR/S-2/35/T	1 800 ÷ 2 800	<ul style="list-style-type: none"> • good initial tack • short curing time • reduced curling effect 	roller



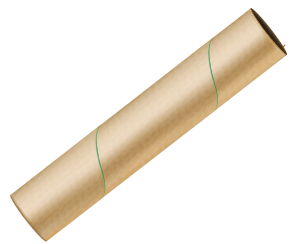


Paper bags

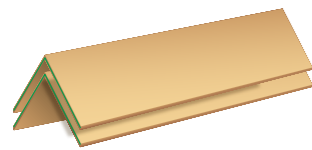
side seam bonding

ADHESIVE	VISCOSITY [mPa·s]	FEATURES	APPLICATION
PAPERMAX® CR/S-3/K/M 55%	2 500 ÷ 3 500	<ul style="list-style-type: none"> high flexible joint short setting time long open time 	 wheel, roller
PAPERMAX® CR/S-25	20 000 ÷ 30 000	<ul style="list-style-type: none"> high flexible joint short setting time long open time 	 wheel, roller
PAPERMAX® CR/S/40	4 000 ÷ 10 000	<ul style="list-style-type: none"> multipurpose short setting time medium flexible joint 	 nozzle, wheel, roller
PAPERMAX® CR	30 000 ÷ 65 000	<ul style="list-style-type: none"> multipurpose very high efficiency available in a wide viscosity range 	 nozzle, wheel, roller



Paper tubes

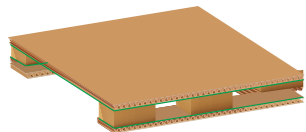


ADHESIVE	VISCOSITY [mPa·s]	FEATURES	APPLICATION
PAPERMAX® Winibor SM	1 900 ÷ 2 500	<ul style="list-style-type: none"> multipurpose perfect for small diameter paper tubes suitable for high speed lines 	 cascade
PAPERMAX® Winibor HT	1 000 ÷ 2 000	<ul style="list-style-type: none"> suitable for high speed lines short setting time first and last layer bonding 	 cascade
PAPERMAX® Winibor SP	1 500 ÷ 1 800	<ul style="list-style-type: none"> suitable for high speed lines hard joint first and last layer bonding 	 cascade
PAPERMAX® CR/W/K-45	3 500 ÷ 4 500	<ul style="list-style-type: none"> suitable for high speed lines medium flexible joint first and last layer bonding 	 cascade
PAPERMAX® Winibor WS	800 ÷ 1 100	<ul style="list-style-type: none"> even spread hard joint perfect for all layers bonding 	 cascade
PAPERMAX® Winibor LT	1 000 ÷ 1 300	<ul style="list-style-type: none"> suitable for high speed lines medium flexible joint last layer bonding 	 cascade






Cardboard corner protectors

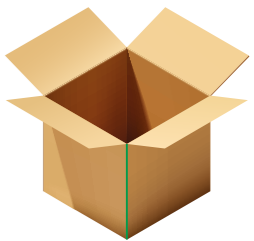
ADHESIVE	VISCOSITY [mPa·s]	FEATURES	APPLICATION
PAPERMAX® Winibor S	1 500 ÷ 2 500	<ul style="list-style-type: none"> • medium flexible joint • even spread 	 cascade
PAPERMAX® Winibor	500 ÷ 2 500	<ul style="list-style-type: none"> • suitable for medium speed lines • hard joint • multipurpose 	 cascade












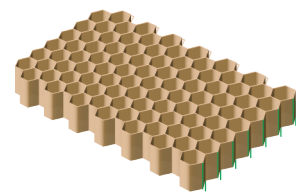
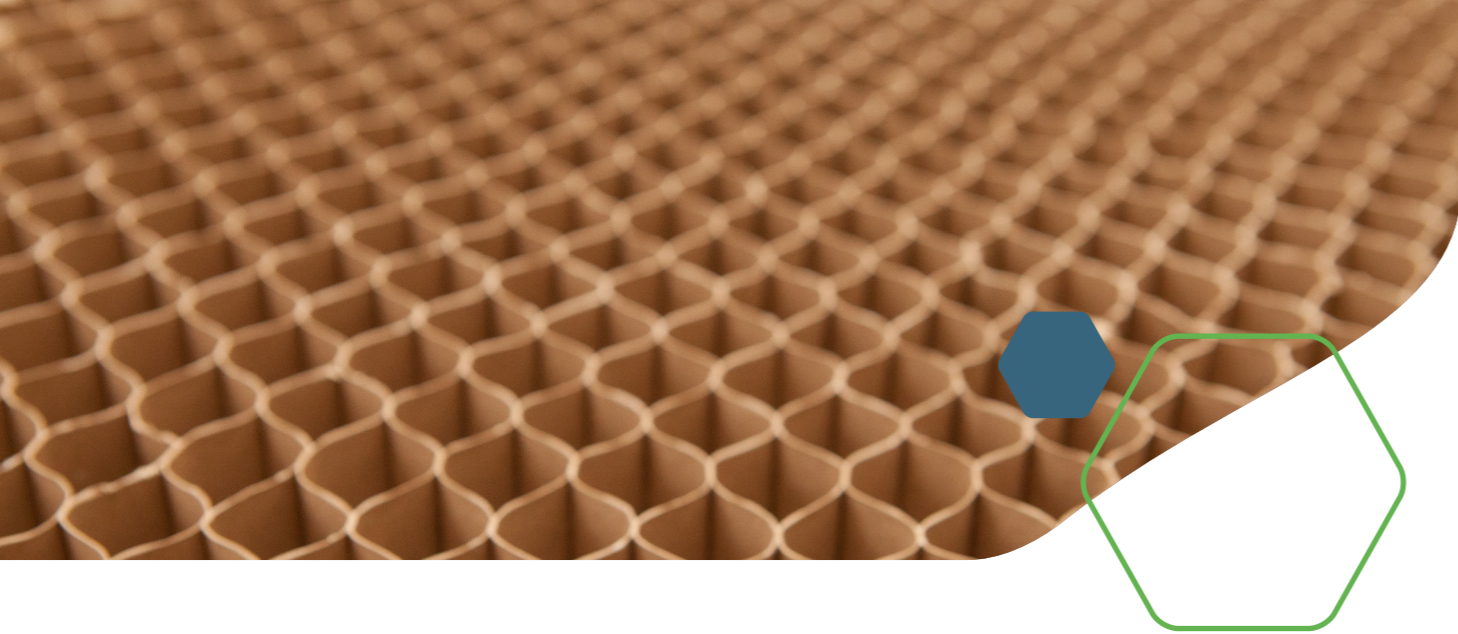
Cardboard pallets

ADHESIVE	VISCOSITY [mPa·s]	FEATURES	APPLICATION
PAPERMAX® CR/W/P-6	6 000 ÷ 7 000	<ul style="list-style-type: none"> • short setting time • low filler content and flexible joint • high initial tack 	 wheel
PAPERMAX® CR/S/40	4 000 ÷ 10 000	<ul style="list-style-type: none"> • medium flexible and transparent joint • multipurpose 	 wheel
PAPERMAX® CR/W/W-45	2 000 ÷ 2 300	<ul style="list-style-type: none"> • short setting time • even spread 	 nozzle

Cardboard packages

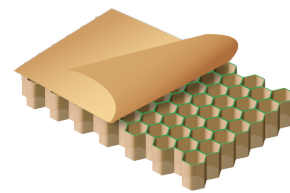


ADHESIVE	VISCOSITY [mPa·s]	FEATURES	APPLICATION
PAPERMAX® CR/S-1	900 ÷ 1 200	<ul style="list-style-type: none"> • short open time • perfect adhesion on regular surfaces • perfect for nozzle application 	 nozzle
PAPERMAX® CR/S-1S	500 ÷ 1 200	<ul style="list-style-type: none"> • long open time • perfect adhesion on regular surfaces • perfect for nozzle application 	 roller
PAPERMAX® CR/S-5K	4 000 ÷ 6 000	<ul style="list-style-type: none"> • good initial tack • short curing time • flexible joint 	 wheel
PAPERMAX® CR/S-3K	2 100 ÷ 2 300	<ul style="list-style-type: none"> • good initial tack • short curing time • flexible joint 	  nozzle, wheel
PAPERMAX® CR/S/46	2 500 ÷ 3 500	<ul style="list-style-type: none"> • perfect for nozzle application • good initial tack • short setting time 	 nozzle
PAPERMAX® CR	30 000 ÷ 65 000	<ul style="list-style-type: none"> • for manual application • very high efficiency • flexible joint 	   nozzle, wheel, roller



Honeycomb core bonding

ADHESIVE	VISCOSITY [mPa·s]	FEATURES	APPLICATION
PAPERMAX® CR/S 04.38	4 000 ÷ 4 700	<ul style="list-style-type: none"> • short setting time • flexible and transparent joint • suitable for high speed lines 	roller
PAPERMAX® CR/W/W-45	2 000 ÷ 2 300	<ul style="list-style-type: none"> • medium flexible joint • short setting time 	nozzle, roller
PAPERMAX® CR/WP-2	1 500 ÷ 2 000	<ul style="list-style-type: none"> • flexible joint • suitable for medium speed lines 	roller
PAPERMAX® CR/S 04.51 DB	4 300 ÷ 4 700	<ul style="list-style-type: none"> • clean application – clean running • suitable for high speed lines 	roller



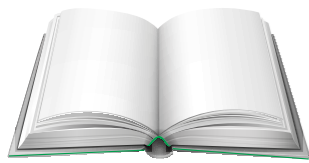
Honeycomb lamination

ADHESIVE	VISCOSITY [mPa·s]	FEATURES	APPLICATION
PAPERMAX® CR/W/P-8	3 000 ÷ 8 000	<ul style="list-style-type: none"> • short setting time • low filler content and flexible joint • high initial tack 	roller
PAPERMAX® CR/S/40	4 000 ÷ 10 000	<ul style="list-style-type: none"> • medium flexible and transparent joint • multipurpose 	roller

Difficult surfaces



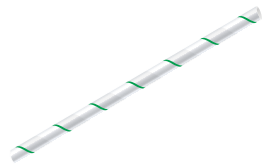
ADHESIVE	VISCOSITY [mPa·s]	FEATURES	APPLICATION
PAPERMAX® CR 665.01	9 000 ÷ 12 000	<ul style="list-style-type: none"> • suitable for high speed lines • very high efficiency • flexible joint 	wheel, roller
PAPERMAX® CR/E 03.61 GM	2 500 ÷ 4 000	<ul style="list-style-type: none"> • suitable for bonding PU foam • flexible joint • perfect for hard cover lamination 	wheel, roller
PAPERMAX® CR 645.01	4 000 ÷ 6 000	<ul style="list-style-type: none"> • multipurpose • very high efficiency • flexible joint 	wheel, roller
PAPERMAX® CR/E 01.54 UVG	1 100 ÷ 1 300	<ul style="list-style-type: none"> • even spread • hard joint • perfect for surfaces laminated with foil 	nozzle
PAPERMAX® CR 605.01	1 100 ÷ 1 300	<ul style="list-style-type: none"> • recommended by Baumer hhs GmbH • suitable for high speed lines • very high efficiency 	nozzle



Bookbinding

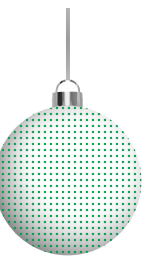
ADHESIVE	VISCOSITY [mPa·s]	FEATURES	APPLICATION
PAPERMAX® CR	30 000 ÷ 65 000	<ul style="list-style-type: none"> perfect for manual application very high efficiency flexible joint 	 nozzle, wheel, roller
PAPERMAX® CR LUX	> 65 000	<ul style="list-style-type: none"> perfect for manual application very high efficiency flexible joint 	 wheel, roller
PAPERMAX® CR/M-10	8 000 ÷ 16 000	<ul style="list-style-type: none"> perfect for manual application suitable for difficult surfaces flexible joint 	 wheel, roller
PAPERMAX® CR 665.01	9 000 ÷ 12 000	<ul style="list-style-type: none"> very high efficiency suitable for difficult surfaces flexible joint 	 wheel, roller

Paper straws

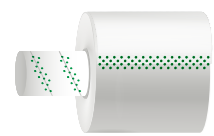


ADHESIVE	VISCOSITY [mPa·s]	FEATURES	APPLICATION
PAPERMAX® CR/PS	6 000 ÷ 9 000	<ul style="list-style-type: none"> water resistant in accordance with FDA and BfR gluten-free compostable 	 roller
PAPERMAX® CR/E 04.43	3 800 ÷ 5 200	<ul style="list-style-type: none"> water resistant in accordance with FDA and BfR high speed production lines gluten-free 	 nozzle, roller

Flocking



ADHESIVE	VISCOSITY [mPa·s]	FEATURES	APPLICATION
PAPERMAX® CR/M-10	8 000 ÷ 16 000	<ul style="list-style-type: none"> perfect adhesion on regular surfaces flexible joint 	 nozzle
PAPERMAX® CR LUX	> 65 000	<ul style="list-style-type: none"> perfect adhesion on regular surfaces flexible joint 	 nozzle



Hygienic papers

core winding, pick-up, lamination, tail sealing

ADHESIVE	VISCOSITY [mPa·s]	FEATURES	APPLICATION
PAPERMAX® CR/S/40	4 000 ÷ 10 000	<ul style="list-style-type: none"> core winding suitable for high speed lines medium flexible and transparent joint multipurpose 	roller
PAPERMAX® CR/S-3/K/M 55%	2 500 ÷ 3 500	<ul style="list-style-type: none"> core winding suitable for high speed lines flexible joint no drying out 	roller
PAPERMAX® Winibor SM	1 900 ÷ 2 500	<ul style="list-style-type: none"> core winding multipurpose perfect for small diameter paper tubes suitable for high speed lines 	roller
PAPERMAX® Winibor S	1 500 ÷ 2 500	<ul style="list-style-type: none"> core winding suitable for high speed lines perfect for small diameter paper tubes medium flexible joint 	roller
PAPERMAX® TP 41.02	38 000 ÷ 44 000	<ul style="list-style-type: none"> pick-up very high efficiency hard joint 	roller
PAPERMAX® TL 33.20 G	30 000 ÷ 36 000	<ul style="list-style-type: none"> laminating very high efficiency for high paper weights – over 20 g 	roller

Plasterboard



ADHESIVE	VISCOSITY [mPa·s]	FEATURES	APPLICATION
PAPERMAX® Winibor	500 ÷ 2 500	<ul style="list-style-type: none"> long open time hard joint suitable for medium speed lines 	nozzle
PAPERMAX® CR/W/45 C	1 300 ÷ 1 500	<ul style="list-style-type: none"> long open time hard joint suitable for medium speed lines 	nozzle
PAPERMAX® Winibor L	1 000 ÷ 1 300	<ul style="list-style-type: none"> long open time hard joint suitable for medium speed lines 	nozzle
PAPERMAX® CR/S/40 SG	13 000 ÷ 15 000	<ul style="list-style-type: none"> 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.**

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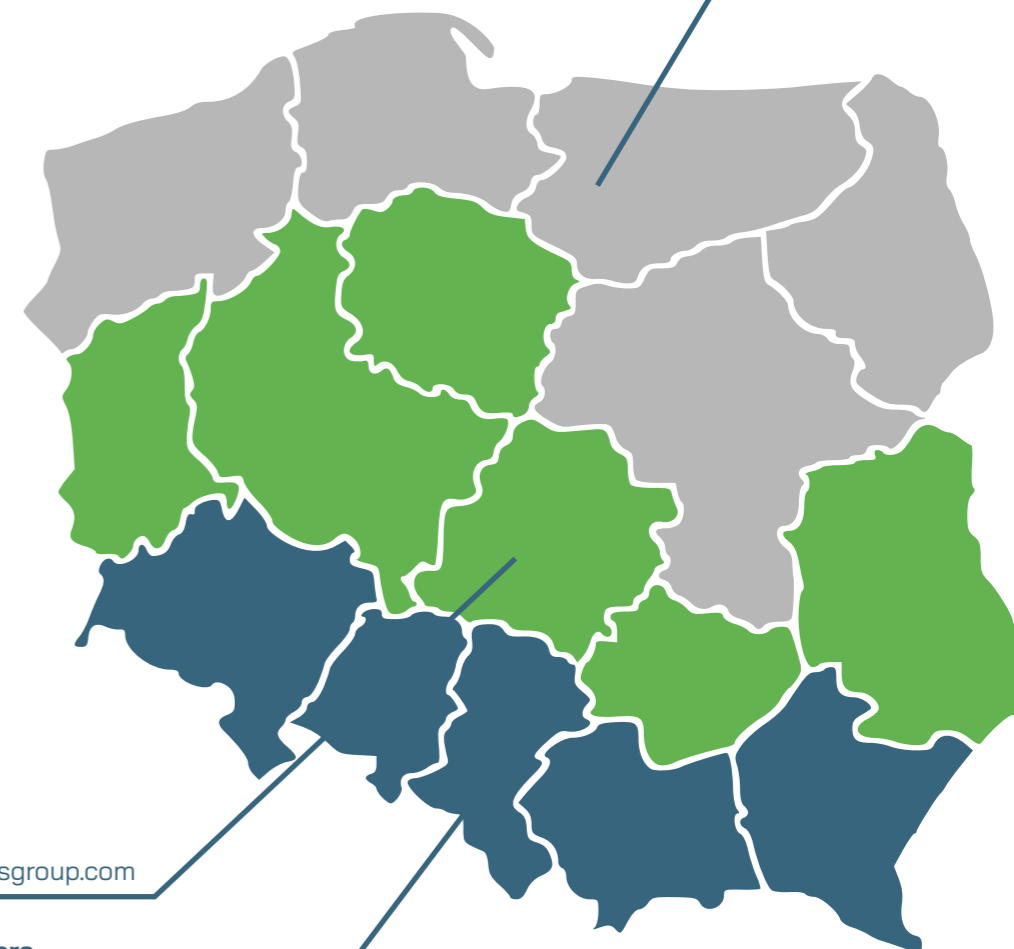
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