

synthos



FORMULAS
FOR A BETTER
WORLD

woodmax
wood adhesives



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.

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**.



6
locations



3 600
employees



3
R&D centers



Sochaczew / POLAND
manufacturing

Breda / NETHERLANDS
manufacturing

Cleveland / USA
commercial office

Wingles / FRANCE
manufacturing

Eschborn / GERMANY
commercial office

Sao Paulo / BRAZIL
commercial office

Oświęcim / POLAND
Headquarter
manufacturing

Kralupy / CZECH REPUBLIC
manufacturing

Schkopau / GERMANY
manufacturing

Tokyo / JAPAN
commercial office

**Seoul
THE REPUBLIC OF KOREA**
commercial office

Shanghai / GREATER CHINA
commercial office

Taipei / TAIWAN
commercial office

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.

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.

Under the BIOSET brand, we offer bio-based adhesives in accordance with the biomass balance. Woodmax adhesives are safe for the environment and for humans - all products in D1-D3 classes are also biodegradable and safe for combustion (under certain conditions).

Our adhesives...



are biodegradable



food contact approval



can be used for toys manufacturing (PN-EN 71-3:2019-07)



have a high temperature resistance WATT'91 (EN 14257)



are waterproof in the classes D1-D4 (EN 204)



Windows

- 2
- 4
- 7
- 12

Doors

- 1
- 2
- 5
- 8
- 9

Wood bonding

- 2
- 3
- 4
- 5

Residential and office furniture

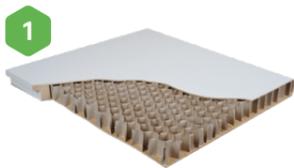
- 3
- 4
- 6
- 8
- 9
- 10

Kitchen and bathroom furniture

- 6
- 8
- 9
- 10

Floors

- 9
- 10
- 11



1 Assembly of honeycomb structure (core)



2 Connecting elements lengthwise - finger joints



3 Dowel pin joints



4 Mortise and tennon joints



5 Edge-glued panels



6 Bonding of massive pannels



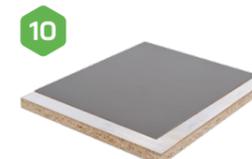
7 Window scantling



8 Laminating HDF, MDF and chipboard with finish foils



9 Covering surfaces with natural and modified veneers



10 Covering with laminate (HPL, CPL)



11 Manufacturing of floorboards



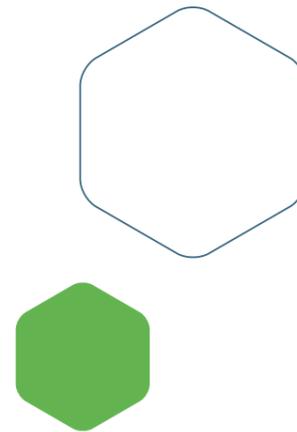
12 Window frames bonding

Woodmax[®] 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.**

Woodmax[®] adhesives are synthetic, based on poly (vinyl acetate) dispersions, also referred to as white adhesives. Synthetic adhesives are an almost exclusive agent used to bond wood and wood-based materials. PVAc based aqueous adhesives are thermoplastic adhesives. Due to high wood and wood-based products adhesion, quick bonding, no negative environmental impact and easy application, PVAc adhesives are used mostly in door, window, stairs and furniture manufacturing.

We offer products in all classes of water resistance form D1 to D4, with selected products meeting high thermal resistance standards in accordance with WATT'91.



WHY WOODMAX[®]?



DURABILITY

WOODMAX[®] products are designed using advanced technologies which translates into very good physicomechanical properties and guarantees durable bonds and safe use for many years.



BOND RESISTANCE

Very good resistance parameters of WOODMAX[®] adhesives result in the final bond resistance being higher than the resistance of the bonded wood.



ECOLOGY

We examine our products influence on the environment. WOODMAX[®] adhesives are environmentally-friendly agents among wood adhesives, they do not contain substances harmful to health and they are easy to use.



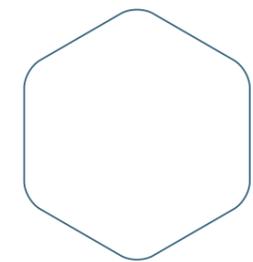
QUALITY

IFT Rosenheim certificate confirming D3 and D4 water resistance, as well as high thermal resistance WATT'91 (EN 14257), IKEA IOS-MATT standards and ISO certificates

Our products

We offer:

- adhesives of the highest quality, confirmed by working with the largest and most demanding manufacturers in Europe's wood and furniture market
- technical support
- testing of adhesives and joints in laboratories (internal and external with international accreditation)
- assistance in implementations and technical tests of new adhesives
- technological support
- product testing
- a fully equipped technology centre
- high-class testing equipment providing comprehensive information about tested adhesives
- continuous investment in research and development



Adhesive features
water resistance class according to PN-EN 204
conformity with WATT'91 standard
hot bonding
klejenie na gorąco
application in a high-frequency press
assembly of honeycomb structure
lamination
finger joints
covering surfaces with veneers and laminates
machine bonding of dowels
general joinery work
hardwood

P 11.551	W 11.45	SW 12.43	SW 12.47	WK 2	WR 13.45	WR 13.50M	HS 13.60	WR 13.50 HF	OC 14.50
D1	D1	D2	D2	D2	D3	D3	D3	D3	D4
						●		●	●
●	●	●	●	●	●	●	●		●
		●	●		●	●	●	●	●
						●		●	●
		●	●		●	●	●		
		●	●		●	●	●	●	●
				●					
●	●	●	●	●	●	●	●		●
					●	●	●	●	●

Notes





synthos

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