

An aerial photograph of a dense green forest. In the center, a pond is shaped like a house, with a chimney on the right side. Overlaid on the image are several white and blue outlines of chemical structures, including a small hexagon, a larger irregular polygon, and a large blue-outlined hexagon.

synthos

FORMULAS
FOR A BETTER
WORLD

OSAKRYL[®]
SYNEXIL[®]



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.

As a manufacturer of dispersions, we have a well-established position on the market. Our water dispersions under **Synexil®** and **Osakryl®** brands are based on vinyl acetate, acrylics, styrene-acrylics and vinyl acrylics. Our portfolio

meets the market needs for the formulation of coatings, construction chemistry, or dispersion adhesives such as plasters, putties, paints, primers, wood coatings, wood and paper adhesives, and PSA adhesives.



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.

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 dispersions which can make a great contribution to the shift towards environmentally-friendly global economy.

The high quality of our products combines tradition and innovation. The technologies used in our dispersions combine our long-standing experience with the energy, passion, and ambition of our team.



Interior paints:

- OSAKRYL® AB 20
- OSAKRYL® OSA 23NM
- OSAKRYL® OSA-1M
- OSAKRYL® OSA S20
- OSAKRYL® OSA-319M
- SYNEXIL® MDP 50
- OSAKRYL® OB
- SYNEXIL® SAB 08
- SYNEXIL® SAB 08LV

Textiles:

- SYNEXIL® DN 50
- SYNEXIL® T

Protective films:

- SYNEXIL® APS 063RL
- SYNEXIL® APS 045PF

Primers:

- OSAKRYL® AP 40
- OSAKRYL® AB 20
- SYNEXIL® DGP
- OSAKRYL® OSA 23NM
- OSAKRYL® OSA-1M
- OSAKRYL® OSA S20
- SYNEXIL® SAB 08LV

Putties:

- OSAKRYL® AB 20
- OSAKRYL® OSA A
- OSAKRYL® OSA 23NM
- OSAKRYL® OSA S20
- SYNEXIL® MDP 50
- OSAKRYL® OB
- SYNEXIL® F11
- SYNEXIL® F5
- SYNEXIL® 50
- SYNEXIL® SAB 08LV

Exterior wood coating systems:

- SYNEXIL® AW 43 CX
- SYNEXIL® AW 1033
- OSAKRYL® AP 40
- SYNEXIL® AW 90 CX

Elastic coatings and sealants:

- OSAKRYL® AH 035
- OSAKRYL® OSA H
- OSAKRYL® OSA A

Interior wood coating systems:

- SYNEXIL® AF 33
- OSAKRYL® AW 24
- SYNEXIL® AW 1033
- OSAKRYL® AP 40
- SYNEXIL® AW 90 CX



Exterior paints:

- OSAKRYL® AB 20
- OSAKRYL® OSA 23NM
- OSAKRYL® OSA-1M
- OSAKRYL® OSA S20
- OSAKRYL® OSA-319M
- OSAKRYL® OB
- SYNEXIL® SAB 08
- SYNEXIL® SAB 08LV

Plasters:

- SYNEXIL® AM 25
- OSAKRYL® AB 20
- OSAKRYL® OSA 23NM
- OSAKRYL® OSA-1M
- OSAKRYL® OSA S20
- OSAKRYL® OSA-319M
- SYNEXIL® SAB 08
- SYNEXIL® SAB 08LV

Adhesives:

- OSAKRYL® AH 035
- OSAKRYL® OSA H
- OSAKRYL® OSA A
- SYNEXIL® MDP 50
- OSAKRYL® OB
- SYNEXIL® F11
- SYNEXIL® F5
- SYNEXIL® 50
- SYNEXIL® 60
- SYNEXIL® S-2
- SYNEXIL® S-5

Labels:

- SYNEXIL® APS 1520L
- SYNEXIL® APS 063RL

Hydroisolations and waterproofing of cement based products:

- OSAKRYL® OSA H
- SYNEXIL® MDP 50
- OSAKRYL® AH 035
- SYNEXIL® SAB 08LV

Tapes:

- SYNEXIL® APS 040T
- SYNEXIL® APS 038T

Paints

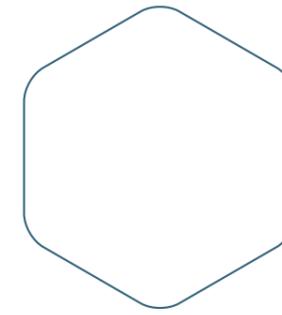
Synthos dispersions binders for **decorative and protective interior and exterior paints** help with the formulation of high performance paints. Thanks to their properties, they may be used in the formulation of paints with, for example, **better hiding power, stain and scrub resistance, exterior durability and low VOC**. The exterior binders are intended for mineral based substrates.

Dispersion characteristics:

- High wet scrub resistance
- Very good adhesion to substrate
- Good hiding and colour retention under various exposure conditions

Dispersion	Application	Dispersion features
Synxil® SAB 05*	   ECO paints, interior paints, exterior paints	   APEO-free, solvent-free, ammonia-free
Osakryl® AB 20	  interior paints exterior paints	   APEO-free, solvent-free, ammonia-free
Osakryl® OSA S20*	  interior paints exterior paints	   APEO-free, solvent-free, freezing resistant
Osakryl® OSA 23NM	   interior paints exterior paints	   APEO-free, solvent-free, ammonia-free
Synxil® SAB 08LV	   interior paints exterior paints	   APEO-free, solvent-free, ammonia-free
Osakryl® OSA-1M	  interior paints exterior paints	  APEO-free solvent-free
Osakryl® OSA-319M	  interior paints exterior paints	  APEO-free solvent-free
Osakryl® OB	  interior paints exterior paints	   APEO-free, solvent-free, ammonia-free
Synxil® MDP 50	 interior paints	   APEO-free, solvent-free, ammonia-free

* more information may be found in the dedicated product brochure.



Polymer type	Specification			Parameters		
	pH	Solids content [%]	Brookfield viscosity [mPa·s]	MFFT [°C]	Tg [°C]	Mean particle size [nm]
S/A	7,2 ÷ 7,9	49 ±1	500 ÷ 3 000	< 5	ca. 5	100 ÷ 130
A	8,0 ÷ 8,5	50 ±1	50 ÷ 500	ca. 17	ca. 22	90 ÷ 130
S/A	7,5 ÷ 8,5	49 ±1	2.000 ÷ 6.000	ca. 25	ca. 23	100 ÷ 130
S/A	7,5 ÷ 8,5	49 ±1	1.000 ÷ 5.000	< 5	ca. 6	130 ÷ 160
S/A	7,5 ÷ 8,5	49 ±1	200 ÷ 1 000	< 5	ca. 6	130 ÷ 160
S/A	7,0 ÷ 9,0	50 ±1	2.000 ÷ 5.000	ca. 12	ca. 18	100 ÷ 140
S/A	7,0 ÷ 9,0	49 ±1	3.000 ÷ 9.000	ca. 30	ca. 33	120 ÷ 160
VA/A	3,5 ÷ 5,5	50 ±2	2.000 ÷ 4.000	ca. 7	ca. 20	400 ÷ 500
VA/ME	3,5 ÷ 5,0	50 ±2	7.000 ÷ 16.000	ca. 5	ca. 19	800 ÷ 1100

A - acrylic • S/A - styrene-acrylic • VA/ME - vinyl acetate-maleic anhydride copolymer • VA/A - vinyl acetate copolymer with alkyl acrylates • PVA - polyvinyl acetate

Plasters

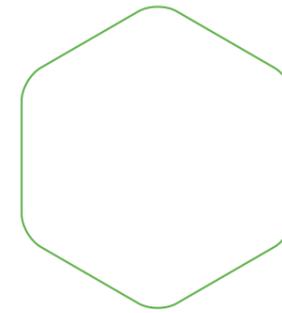
Synexil® and Osakryl® dispersions are recommended as binders for high quality **decorative and protective plasters**. Thanks to their properties, they may be used for **silicone and silicate modified coating** formulations.

Dispersion characteristics:

- very good wet and dry adhesion to substrate
- low water absorption

Dispersion	Application	Dispersion features
Synexil® AM 25*	 mosaic plaster	  APEO-free ammonia-free
Osakryl® AB 20	 plaster: acrylic, silicone	   APEO-free, solvent-free, ammonia-free
Osakryl® OSA S20*	 plaster: acrylic, silicate silicone	    APEO-free ammonia-free freezing resistant
Osakryl® OSA 23NM	 plaster: acrylic, silicate silicone	   APEO-free, solvent-free, ammonia-free
Synexil® SAB 08LV	 plaster: acrylic, silicate silicone	   APEO-free, solvent-free, ammonia-free
Osakryl® OSA-1M	 plaster: acrylic, silicone	  APEO-free ammonia-free
Osakryl® OSA-319M	 plaster: acrylic, silicone	  APEO-free ammonia-free
Synexil® SAB 05*	 plaster: acrylic, silicate silicone	   APEO-free, solvent-free, ammonia-free

* more information may be found in the dedicated product brochure.



Polymer type	Specification			Parameters		
	pH	Solids content [%]	Brookfield viscosity [mPa·s]	MFFT [°C]	Tg [°C]	Mean particle size [nm]
A	7,5 ÷ 8,5	50 ±1	500 ÷ 2.000	ca. 15	ca. 20	90 ÷ 110
A	8,0 ÷ 8,5	50 ±1	50 ÷ 500	ca. 17	ca. 22	90 ÷ 130
S/A	7,5 ÷ 8,5	49 ±1	2.000 ÷ 6.000	ca. 25	ca. 23	100 ÷ 130
S/A	7,5 ÷ 8,5	49 ±1	1.000 ÷ 5.000	< 5	ca. 6	130 ÷ 160
S/A	7,5 ÷ 8,5	49 ±1	200 ÷ 1.000	< 5	ca. 6	130 ÷ 160
S/A	7,0 ÷ 9,0	50 ±1	2.000 ÷ 5.000	ca. 12	ca. 18	100 ÷ 140
S/A	7,0 ÷ 9,0	49 ±1	3.000 ÷ 9.000	ca. 30	ca. 33	120 ÷ 160
S/A	7,2 ÷ 7,9	49 ±1	500 ÷ 3.000	< 5	ca. 5	100 ÷ 130

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Wood coatings

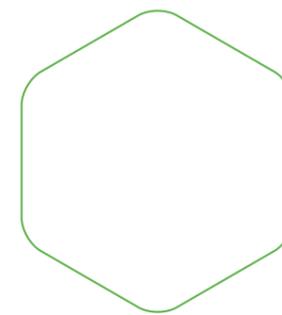
Facing the expectations, Synthos offers **Synexil®** and **Osakryl®** dispersions intended for **decorative and protective coating for wood**. These waterborne acrylic dispersions are compliant with the recommendations for **low-VOC and health, environment and worker safety**. Application areas include waterborne **wood stains, wood stain varnishes and pigmented coatings** for interior and exterior use.

Dispersion characteristics:

- high scratch resistance
- very good chemical resistance
- very good anti-blocking

Dispersion	Application	Dispersion features
Synexil® AF 33*	 wood enamels, furniture varnishes, primers and topcoats, varnishes	 APEO-free, solvent-free, freezing resistance, self-crosslinking
Synexil® AW 43CX*	 wood enamels elements of windows and doors, primers and topcoats, wooden facade paints, varnishes	 APEO-free, solvent-free, self-crosslinking, core-shell
Synexil® AW 90CX*	 wood stain, varnish stain, varnishes	 bio-based raw materials, self-crosslinking, APEO-free, solvent-free
Synexil® AW 1033	 wood enamels, impregnates, wood stain, varnish stain, varnishes	 APEO-free, solvent-free
Osakryl® AW 24	 wood enamels, impregnates, wood stain, varnish stain, varnishes	 APEO-free, solvent-free
Osakryl® AP 40*	 impregnates, wood stain	 APEO-free, solvent-free

* more information may be found in the dedicated product brochure.



Polymer type	Specification			Parameters		
	pH	Solids content [%]	Brookfield viscosity [mPa·s]	MFFT [°C]	Tg [°C]	Mean particle size [nm]
A	8,3 ÷ 9,0	40 ±1	< 200	ca. 65	ca. 40	90 ÷ 130
A	8,3 ÷ 9,0	41 ±1	< 200	ca. 12	ca. 2/64	100 ÷ 140
A	7,7 ÷ 8,7	45 ±1	< 500	< 5	ca. -15/100	100 ÷ 130
A	7,5 ÷ 8,5	47 ±1	< 200	ca. 22	ca. 27	140 ÷ 170
A	7,5 ÷ 8,5	48 ±1	30 ÷ 200	ca. 19	ca. 23	140 ÷ 170
A	7,0 ÷ 8,0	29 ±1	5 ÷ 50	ca. 0	ca. 20	40 ÷ 50

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Primers

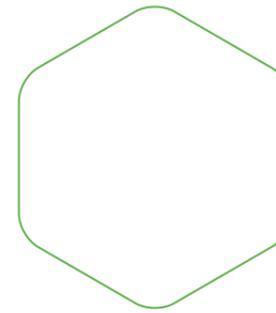
Synexil® and Osakryl® dispersions are intended for use as binders in deep **penetrating primers and universal primers** for mineral based surfaces such as concrete, brick, drywall, gypsum and cement-lime plaster.

Dispersion characteristics:

- very good water-resistance
- high substrate binding efficiency
- very good penetration into porous substrate
- alkali resistance
- very good adhesion

Dispersion	Application	Dispersion features
Osakryl® AP 40*	 deep penetrating primers universal primers	 APEO-free solvent-free
Synexil® DGP	 deep penetrating primers universal primers	 APEO-free, solvent-free, ammonia-free
Osakryl® AB 20	 universal primers	 APEO-free, solvent-free, ammonia-free
Osakryl® OSA S20*	 universal primers	 APEO-free solvent-free, freezing resistant
Osakryl® OSA 23NM	 universal primers	 APEO-free, solvent-free, ammonia-free
Synexil® SAB 08LV	 universal primers	 APEO-free, solvent-free, ammonia-free
Osakryl® OSA-1M	 universal primers	 APEO-free solvent-free

* more information may be found in the dedicated product brochure.



Polymer type	Specification			Parameters		
	pH	Solids content [%]	Brookfield viscosity [mPa·s]	MFFT [°C]	Tg [°C]	Mean particle size [nm]
A	7,0 ÷ 8,0	29 ±1	5 ÷ 50	ca. 0	ca. 20	40 ÷ 50
S/A	5,0 ÷ 7,0	30 ±1	< 50	ca. 0	ca. 7	35 ÷ 60
A	8,0 ÷ 8,5	50 ±1	50 ÷ 500	ca. 17	ca. 22	90 ÷ 130
S/A	7,5 ÷ 8,5	49 ±1	2.000 ÷ 6.000	ca. 25	ca. 23	100 ÷ 130
S/A	7,5 ÷ 8,5	49 ±1	1.000 ÷ 5.000	< 5	ca. 6	130 ÷ 160
S/A	7,5 ÷ 8,5	49 ±1	200 ÷ 1.000	< 5	ca. 6	130 ÷ 160
S/A	7,0 ÷ 9,0	50 ±1	2.000 ÷ 5.000	ca. 12	ca. 18	100 ÷ 140

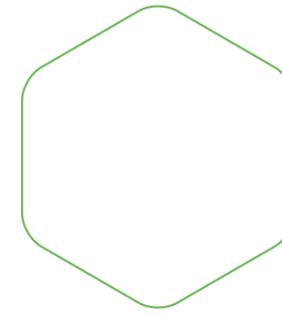
A - acrylic • S/A - styrene-acrylic • VA/ME - vinyl acetate-maleic anhydride copolymer • VA/A - vinyl acetate copolymer with alkyl acrylates • PVA - polyvinyl acetate

Putties

Ready for use putties based on **Synexil®** and **Osakryl®** dispersions, are characterized by **high elasticity and hardness**. They feature high adherence to the substrate and are more resistant to humidity than traditional gypsum finishing coats. They may be applied in a thin layer and therefore assist in final surface smoothing before painting. They enable obtaining a white, perfectly smooth and easy to paint surface. They may be on interior building surfaces such as concrete, plaster, plasterboards, seasoned and traditional cement and lime plaster.

Dispersion	Dispersion features
Osakryl® AB 20	 APEO-free, solvent-free, ammonia-free
Osakryl® OSA S20*	 APEO-free ammonia-free freezing resistant
Osakryl® OSA 23NM	 APEO-free, solvent-free, ammonia-free
Synexil® SAB 08LV	 APEO-free, solvent-free, ammonia-free
Osakryl® OSA A	 APEO-free ammonia-free
Synexil® MDP 50	 APEO-free, solvent-free, ammonia-free
Osakryl® OB	 APEO-free, solvent-free, ammonia-free
Synexil® 50	 APEO-free ammonia-free
Synexil® F5	 APEO-free
Synexil® F11	 APEO-free

* more information may be found in the dedicated product brochure.



Polymer type	Specification			Parameters		
	pH	Solids content (%)	Brookfield viscosity [mPa·s]	MFFT [°C]	Tg [°C]	Mean particle size [nm]
A	8,0 ÷ 8,5	50 ±1	50 ÷ 500	ca. 17	ca. 22	90 ÷ 130
S/A	7,5 ÷ 8,5	49 ±1	2.000 ÷ 6.000	ca. 25	ca. 23	100 ÷ 130
S/A	7,5 ÷ 8,5	49 ±1	1.000 ÷ 5.000	< 5	ca. 6	130 ÷ 160
S/A	7,5 ÷ 8,5	49 ±1	200 ÷ 1.000	< 5	ca. 6	130 ÷ 160
S/A	4,0 ÷ 6,0	49 ±1	10.000 ÷ 20.000	ca. 0	ca. 0	110 ÷ 130
VA/A	3,5-5,0	50 ±2	7.000 ÷ 16.000	ca. 5	ca. 19	800 ÷ 1100
VA/A	3,5 ÷ 5,5	50 ±2	2.000 ÷ 4.000	ca. 7	ca. 20	400 ÷ 500
VA/ME	3,5 ÷ 5,0	50 ±2	min. 12.000	ca. 14	ca. 40	1.500 ÷ 3.500
PVA	3,0 ÷ 5,0	52 ±2	min. 15.000	ca. 2	ca. 23	1.500 ÷ 3.500
PVA	3,0 ÷ 5,0	54+/-2	min. 15.000	ca. 0	ca. 4	1.500 ÷ 3.500

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Hydroisolation

and waterproofing of cement-based products

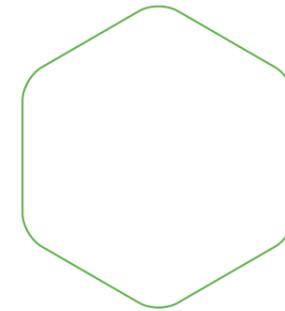
Synthos Specialties products are recommended for **modification and plasticization of cement** and lime mortars as well as binders for **elastic coatings**. They can also be used for all types of waterproofing **products** both single- and two-component products as well as for bituminous emulsions.

Dispersion characteristics:

- very good adhesion
- no coalescing agents required
- excellent flexibility
- perfect hydrophobicity
- very good compatibility with cements
- very good compatibility with bitumen emulsions

Dispersion	Application	Dispersion features
Osakryl® AH 035	 1K waterproofing, bitumen emulsion products	 APEO-free solvent-free
Osakryl® OSA H*	 1K and 2K waterproofing, cement-based products, bitumen emulsion products	 APEO-free, ammonia-free, solvent-free
Synexil® SAB 08LV	 cement-based products	 APEO-free solvent-free, ammonia-free
Synexil® MDP 50	 cement-based products	 APEO-free solvent-free, ammonia-free

* more information may be found in the dedicated product brochure.



Polymer type	Specification			Parameters		
	pH	Solids content (%)	Brookfield viscosity [mPa·s]	MFFT [°C]	Tg [°C]	Mean particle size [nm]
A	5,0 ÷ 6,0	58 ±1	50 ÷ 300	ca. 0	ca. (-30)	200 ÷ 300
S/A	7,0 ÷ 7,8	55 ±1	500 ÷ 2.000	< 0	ca. (-40)	180 ÷ 210
S/A	7,5 ÷ 8,5	49 ±1	200 ÷ 1.000	< 5	ca. 6	130 ÷ 160
VA/ME	3,5 ÷ 5,0	50 ±2	7.000 ÷ 16.000	ca. 5	ca. 19	800 ÷ 1.100

A - acrylic • S/A - styrene-acrylic • VA/ME - vinyl acetate-maleic anhydride copolymer • VA/A - vinyl acetate copolymer with alkyl acrylates • PVA - polyvinyl acetate

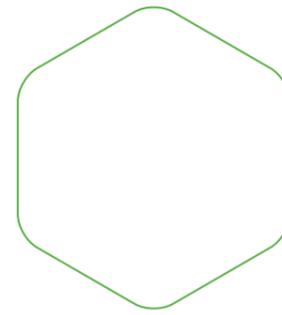
Adhesives

Synthos offers dispersions for production of many dispersion adhesives for mineral substrates (construction), as well as wood adhesives and paper adhesives for the packaging industry.



Dispersion	Application	Dispersion features
Osakryl® AH 035	assembly adhesive, tile adhesive, styrofoam adhesive	APEO-free, solvent-free
Osakryl® OSA H*	assembly adhesive, tile adhesive, styrofoam adhesive	APEO-free, solvent-free, ammonia-free
Osakryl® OSA A	assembly adhesive, tile adhesive, styrofoam adhesive	APEO-free, solvent-free
Osakryl® OB	wallpaper adhesive	APEO-free, solvent-free, ammonia-free
Synexil® F11	wood adhesive, paper adhesive	APEO-free
Synexil® F5	wood adhesive, paper adhesive	APEO-free
Synexil® 50	wood adhesive, paper adhesive	APEO-free, solvent-free
Synexil® 60	wood adhesive, paper adhesive, billboard adhesive	APEO-free, solvent-free
Synexil® S-2	paper adhesives	APEO-free, solvent-free
Synexil® S-5	paper adhesives	APEO-free, solvent-free

* more information may be found in the dedicated product brochure.



Polymer type	Specification			Parameters		
	pH	Solids content [%]	Brookfield viscosity [mPa·s]	MFFT [°C]	Tg [°C]	Mean particle size [nm]
A	5,0 ÷ 6,0	58 ±1	50 ÷ 300	ca. 0	ca. (-30)	200 ÷ 300
S/A	7,0 ÷ 7,8	55 ±1	500 ÷ 2.000	< 0	ca. (-40)	180 ÷ 210
S/A	4,0 ÷ 6,0	49 ±1	10.000 ÷ 20.000	ca. 0	ca. 0	110 ÷ 130
VA/A	3,5 ÷ 5,5	50 ±2	2.000 ÷ 4.000	ca. 7	ca. 20	400 ÷ 500
PVA	3,0 ÷ 5,0	54 ±2	min. 15.000	ca. 0	ca. 4	1.500 ÷ 3.500
PVA	3,0 ÷ 5,0	52 ±2	min. 15.000	ca. 2	ca. 23	1.500 ÷ 3.500
PVA	3,0 ÷ 5,0	50 ±2	min. 12.000	ca. 14	ca. 40	1.500 ÷ 3.500
PVA	4,0 ÷ 6,0	60 ±2	2.000 ÷ 20.000	ca. 14	ca. 40	1.500 ÷ 2.500
PVA	3,0 ÷ 6,0	52 ±2	1.000 ÷ 3.000	ca. 16	ca. 35	500 ÷ 600
PVA	3,0 ÷ 6,0	52 ±2	3.000 ÷ 7.000	ca. 16	ca. 35	350 ÷ 450

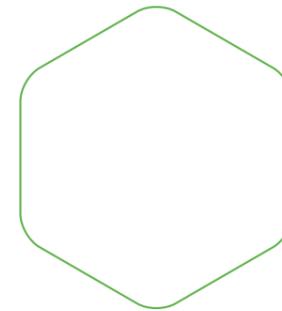
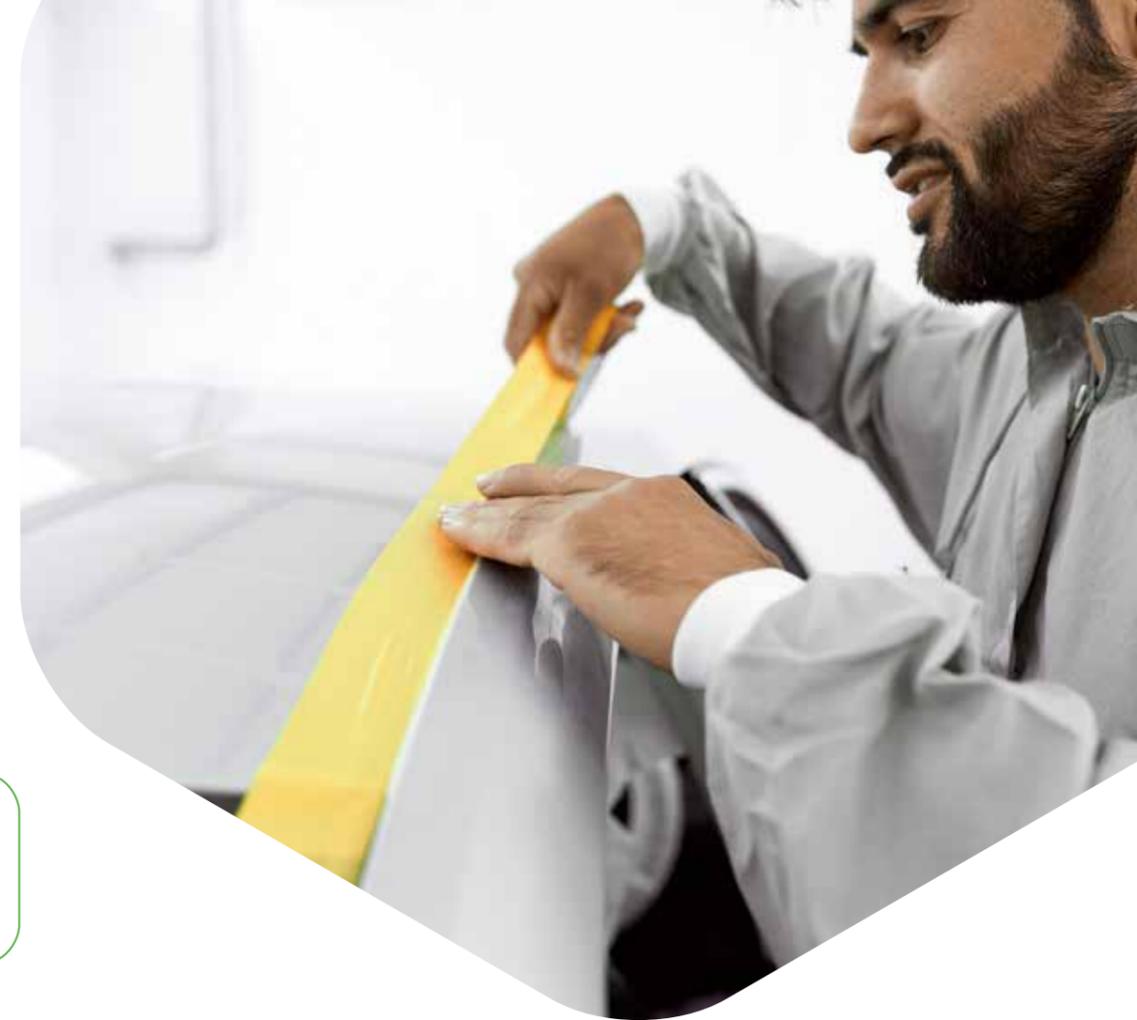
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PSA

The Synthos offering includes ready-to-use PSA (pressure sensitive adhesive) aqueous dispersions for manufacturing self-adhesive tapes, labels or protective films. We can prepare tailor-made products meeting individual customer expectations.



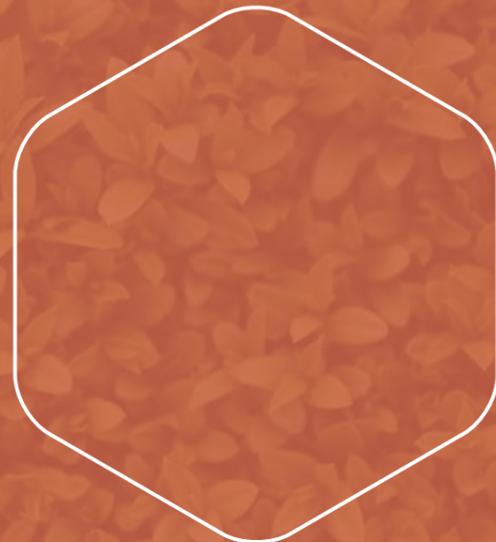
Dispersion	Application
Synxetil® APS 040T	 tapes
Synxetil® APS 038T	 tapes
Synxetil® APS 1520L	 labels
Synxetil® APS 063RL	 removable labels, 1k protective films
Synxetil® APS 045PF	 2k protective films



Specification			Parameters		
pH	Solids content [%]	Brookfield viscosity [mPa·s]	MFFT [°C]	Tg [°C]	Mean particle size [nm]
7,5 ÷ 8,5	55 ±1	100 ÷ 400	< 0	ca. -38	250 ÷ 450
8,5 ÷ 9,5	55 ±1	100 ÷ 500	< 0	ca. -38	250 ÷ 500
6,0 ÷ 7,0	54 ÷ 56	300 ÷ 600	< 0	ca. -41	300 ÷ 600
5,0 ÷ 6,0	61 ±1	300 ÷ 1200	< 0	ca. -52	450 ÷ 650
8,0 ÷ 9,5	56 ±1	50 ÷ 300	< 0	ca. -48	300 ÷ 400

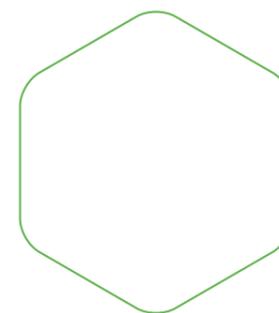
Elastic coatings and sealants

Synthos dispersions are based on innovative technologies and precisely determined set of physicochemical parameters, which allow application of the dispersions in special products such as acrylic sealing agents, featuring **excellent elasticity and very good hydrophobic** properties.



Dispersion	Application	Dispersion features
Osakryl® AH035	 acrylic sealant, flexible grout	 APEO-free solvent-free
Osakryl® OSA H*	 acrylic sealant, flexible grout	 APEO-free solvent-free, ammonia-free
Osakryl® OSA A	 acrylic sealant, flexible grout	 APEO-free solvent-free

* more information may be found in the dedicated product brochure.

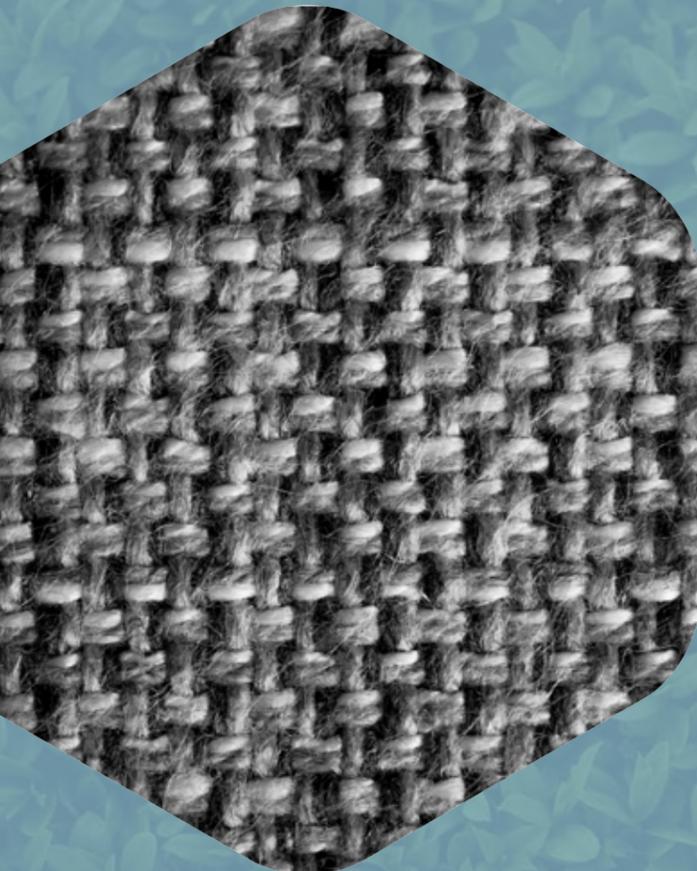


Polymer type	Specification			Parameters		
	pH	Solids content [%]	Brookfield viscosity [mPa·s]	MFFT [°C]	Tg [°C]	Mean particle size [nm]
A	5,0 ÷ 6,0	58 ±1	50 ÷ 300	ca. 0	ca. (-30)	200 ÷ 300
S/A	7,0 ÷ 7,8	55 ±1	500 ÷ 2.000	< 0	ca. (-40)	180 ÷ 210
S/A	4,0 ÷ 6,0	49 ±1	10.000 ÷ 20.000	ca. 0	ca. 0	110 ÷ 130

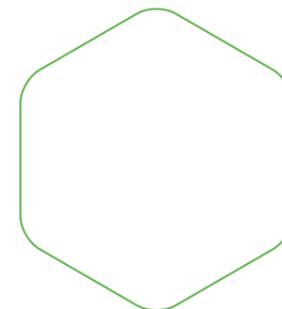
A - acrylic • S/A - styrene-acrylic • VA/ME - vinyl acetate-maleic anhydride copolymer • VA/A - vinyl acetate copolymer with alkyl acrylates • PVA - polyvinyl acetate

Textiles

The Synexil® brand also comprises the dispersions dedicated to the textile industry that can be used as a basic component in various end-use finishes for **increasing fabric performance characteristics**.

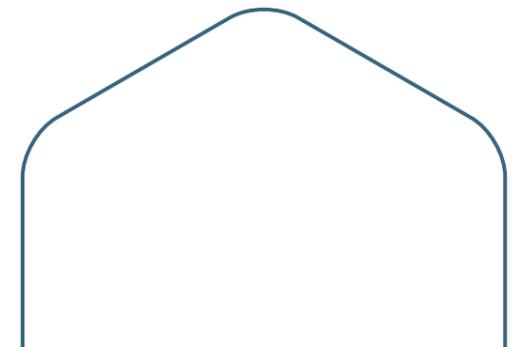
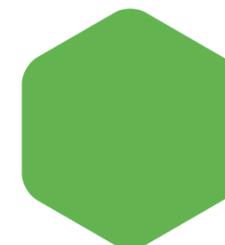


Dispersion	Application
Synexil® DN 50	 glass fibre impregnation, textiles impregnation



Polymer type	Specification			Parameters		
	pH	Solids content [%]	Brookfield viscosity [mPa·s]	MFFT [°C]	Tg [°C]	Mean particle size [nm]
PV/A	3,0 ÷ 5,0	50 ±2	100 ÷ 350*	ca. 15	ca. 36	400 ÷ 600

A - acrylic • S/A - styrene-acrylic • VA/ME - vinyl acetate-maleic anhydride copolymer • VA/A - vinyl acetate copolymer with alkyl acrylates • PVA - polyvinyl acetate



Additives

Synxil® ATH 30 is an acrylic thickener dedicated to modifying the rheology of water-based products in the range of architectural coatings and construction products (such as paints, plasters etc.). It belongs to a group of HASE thickeners, hydrophobically modified acrylic dispersions, characterized by associative thickening in aqueous systems. It is effective at low shear rates, giving a pseudoplastic viscosity profile.

Dispersion characteristics:

- preventing sedimentation or dripping
- creates pseudoplastic rheology profile (shear-thinning)
- excellent for the spray application

Dispersion	Dispersion features	Specification			Parameters	
		pH	Solids content (%)	Brookfield viscosity (mPa·s)	Tg (°C)	Mean particle size (nm)
Synxil® ATH 30*	 APEO-free solvent-free	2,0 ÷ 3,0	29 ÷ 32	< 20	ca. 38	100 ÷ 200

* more information may be found in the dedicated product brochure.

Technical Services

Synthos offers full customer technological service. The team of technical advisers working in close cooperation with the Research & Development Laboratory, offers technical consultation and support for customers:

- cooperation with a customer during implementation of new dispersions
- performing analytical and specialistic tests for customers
- carrying out new projects jointly with customers
- formulation of recipes for finished products and modification of formulations meeting customers expectations

Technical Service

e-mail: dispersions.technicalservice@synthosgroup.com

Dispersion	Polymer type	Specification			Parameters		
		pH	Solids content (%)	Brookfield viscosity (mPa·s)	MFFT (°C)	Tg (°C)	Mean particle size (nm)
Osakryl® AP 40	A	7,0 ÷ 8,0	29 ±1	5 ÷ 50	ca. 0	ca. 20	40 ÷ 50
Osakryl® AH 035	A	5,0 ÷ 6,0	58 ±1	50 ÷ 300	ca. 0	ca. (-30)	200 ÷ 300
Osakryl® AB 20	A	8,0 ÷ 8,5	50 ±1	50 ÷ 500	ca. 17	ca. 22	90 ÷ 130
Osakryl® AW 24	A	7,5 ÷ 8,5	48 ±1	30 ÷ 200	ca. 19	ca. 23	140 ÷ 170
Synxil® AF 33	A	8,3 ÷ 9,0	40 ±1	< 200	ca. 65	ca. 40	90 ÷ 130
Synxil® AW 43CX	A	8,3 ÷ 9,0	41 ±1	< 200	ca. 12	ca. 2/64	100 ÷ 140
Synxil® AW 90CX	A	7,7 ÷ 8,7	45 ± 1	< 500	< 5	ca. -15/100	100 ÷ 130
Synxil® AW 1033	A	7,5 ÷ 8,5	47 ±1	< 200	ca. 22	ca. 27	140 ÷ 170
Synxil® AM 25	A	7,5 ÷ 8,5	50 ±1	500 ÷ 2.000	ca. 15	ca. 20	90 ÷ 110
Synxil® APS 040T	A	7,5 ÷ 8,5	55 ±1	100 ÷ 400	< 0	ca. -38	250 ÷ 450
Synxil® APS 038T	A	8,5 ÷ 9,5	55 ±1	100 ÷ 500	< 0	ca. -38	250 ÷ 500
Synxil® APS 1520L	A	6,0 ÷ 7,0	54 ÷ 56	300 ÷ 600	< 0	ca. -41	300 ÷ 600
Synxil® APS 063RL	A	5,0 ÷ 6,0	61 ±1	300 ÷ 1200	< 0	ca. -52	450 ÷ 650
Synxil® APS 045PF	A	8,0 ÷ 9,5	56 ±1	50 ÷ 300	< 0	ca. -48	300 ÷ 400
Synxil® SAB 05	S/A	7,2 ÷ 7,9	49 ±1	500 ÷ 3.000	< 5	ca. 5	100 ÷ 130
Osakryl® OSA S20	S/A	7,5 ÷ 8,5	49 ±1	2.000 ÷ 6.000	ca. 25	ca. 23	100 ÷ 130
Osakryl® OSA 23NM	S/A	7,5 ÷ 8,5	49 ±1	1.000 ÷ 5.000	< 5	ca. 6	130 ÷ 160
Synxil® SAB 08LV	S/A	7,5 ÷ 8,5	49 ±1	200 ÷ 1.000	< 5	ca. 6	130 ÷ 160
Osakryl® OSA-319M	S/A	7,0 ÷ 9,0	49 ±1	3.000 ÷ 9.000	ca. 30	ca. 33	120 ÷ 160
Osakryl® OSA-1M	S/A	7,0 ÷ 9,0	50 ±1	2.000 ÷ 5.000	ca. 12	ca. 18	100 ÷ 140
Osakryl® OSA A	S/A	4,0 ÷ 6,0	49 ±1	10.000 ÷ 20.000	ca. 0	ca. 0	110 ÷ 130
Osakryl® OSA H	S/A	7,0 ÷ 7,8	55 ±1	500 ÷ 2000	< 0	ca. (-40)	180 ÷ 210
Synxil® DGP	S/A	5,0 ÷ 7,0	30 ±1	< 50	ca. 0	ca. 7	35 ÷ 60
Synxil® 50	PVA	3,0 ÷ 5,0	50 ±2	min. 12.000	ca. 14	ca. 40	1.500 ÷ 3.500
Synxil® 60	PVA	4,0 ÷ 6,0	60 ±2	2.000 ÷ 20.000	ca. 14	ca. 40	1.500 ÷ 2.500
Synxil® F5	PVA	3,0 ÷ 5,0	52 ±2	min. 15.000	ca. 2	ca. 23	1.500 ÷ 3.500
Synxil® F11	PVA	3,0 ÷ 5,0	54 ±2	min. 15.000	ca. 0	ca. 4	1.500 ÷ 3.500
Synxil® S-2	PVA	3,0 ÷ 6,0	52 ±2	1.000 ÷ 3.000	ca. 16	ca. 35	500 ÷ 600
Synxil® S-5	PVA	3,0 ÷ 6,0	52 ±2	3.000 ÷ 7.000	ca. 16	ca. 35	350 ÷ 450
Synxil® DN 50	PVA	3,0 ÷ 5,0	50 ±2	100 ÷ 350*	ca. 15	ca. 36	400 ÷ 600
Osakryl® OB	VA/A	3,5 ÷ 5,5	50 ±2	2.000 ÷ 4.000	ca. 7	ca. 20	400 ÷ 500
Synxil® MDP 50	VA/ME	3,5 ÷ 5,0	50 ±2	7.000 ÷ 16.000	ca. 5	ca. 19	800 ÷ 1.100



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