

Adhesive solutions

for HVAC & AIR Filter solutions

For a clean working process & a healthy environment



KEEPING THINGS TOGETHER

MITOL, a producer of a wide range of adhesives and a solutions provider, offers adhesives developed in collaboration with customers to meet specific technological requirements. The key advantages of our adhesives include **quick adaptation to production technologies, optimal flow properties, excellent adhesion to various materials, and a long-lasting, durable final product.**

Our filter adhesives and moulding compounds are widely used in the production of heat exchangers and air filters to ensure clean air by effectively removing impurities.

Our adhesives are the optimal solution for various types of heat exchangers:



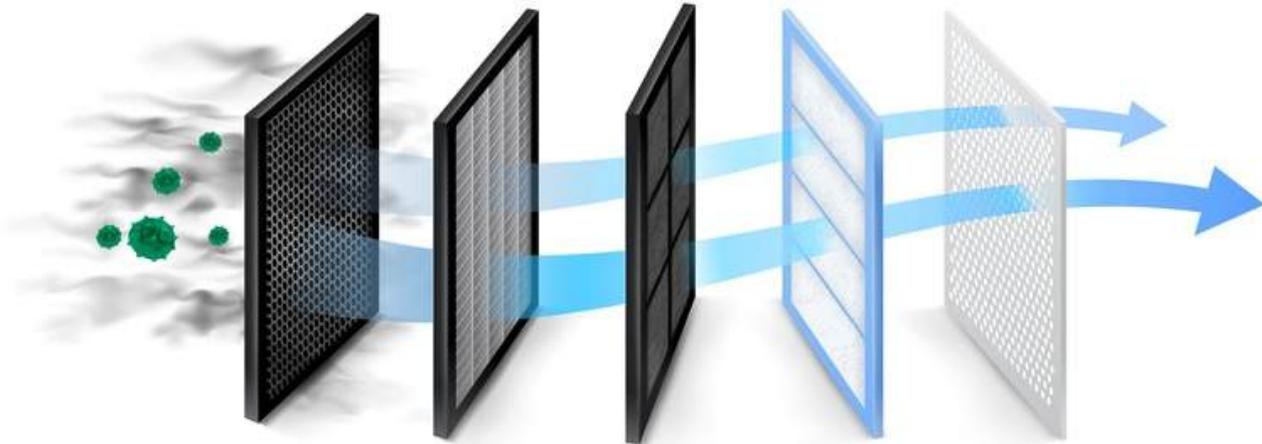
Enthalpic Counterflow Heat Exchangers



Crossflow Heat Exchanger



Rotary Heat Exchangers



Our vision is to **become a key global partner in adhesive solutions for the HVAC and air filtration industries.**

We are driven by continuous innovation, customer collaboration, and a commitment to sustainability.

Our Vision Line adhesives reflect the **highest standards of performance, tailored for cutting-edge applications** in modern manufacturing processes.



VISION

— LINE —



Adhesives contain at least 20% biobased materials



Adhesives do not compromise the recyclability of the end product



Energy-saving hot melt adhesives – reduce working temperatures by at least 20%

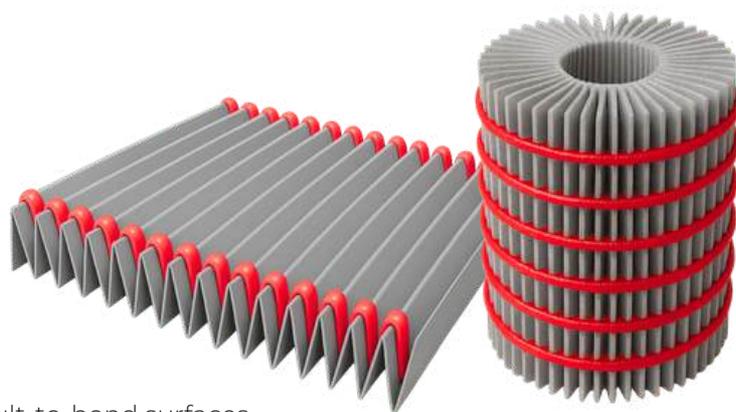


Low-emission adhesives



TERMOKOL hot melt adhesives for:

- Pleat bonding and fixation
- Protecting of stitches
- Gluing in heat exchangers
- Frame assembly



Characteristics of adhesives:

- Good adhesion to different materials, also to difficult-to-bond surfaces
- Short setting times for high production capacities
- Distinguished by flexible & resistant joints
- Compliant with food regulations FDA 21 CFR 175.105
- Compliant with ISO 846 in antimicrobial resistance

SELECTION OF HOT MELT ADHESIVES

Product	Base	Viscosity (mPas)	Softening point (°C)	Application temperature (°C)	Special properties
TERMOKOL 2616	EVA hot melt	at 130° C : approx. 21.000	approx: 112	130 – 180	White. Low application temperature. Foamable. Excellent for high-speed pleating.
TERMOKOL 2617	EVA hot melt	at 130° C : approx. 13.000	approx: 113	130 – 180	White opaque, medium-speed gluing. Fomable in low-temp application.
TERMOKOL 2321/1	EVA hot melt	at 150°C: 1.500 – 1.900	108 – 115	150 – 180	Yellowish, medium open time, compliant with food regulations FDA 21 CFR 175.105 VISION line product.
TERMOKOL 2412	EVA hot melt	at 150°C 1.500 – 2.500	75 – 90	150 – 160	Yellowish, lower application temperature, compliant with food regulations FDA 21 CFR 175.105.
TERMOKOL 2090	EVA hot melt	at 170°C: approx. 14.000 - 17.000	75 – 80	150 – 180	Transparent, lower application temperature, excellent adhesion to plastic and aluminium, Compliant with ISO 846 in antimicrobial resistance.
TERMOKOL 2927	Amorphous polyolefin	at 160°C: approx. 1.600	Approx. 110	150 – 180	Yellow, good hot tack and thermal stability, excellent adhesion to plastic and aluminium, Compliant with ISO 846 in antimicrobial resistance.
TERMOKOL ULTRA 2318	Amorphous polyolefin	at 190°C: 2.000 - 3.000	120 – 127	170 – 200	White, good adhesion to difficult-to-bond surfaces. High temperature, water and chemical resistance.
TERMOKOL ULTRA 2051	Amorphous polyolefin	at 200°C: approx. 5.000	Approx: 125	170 – 200	Transparent, good adhesion to difficult-to-bond surfaces. High heat resistance, water and chemical resistance.
TERMOKOL PUR 2567	Polyurethane	at 140°C: approx. 6.000	/	100 – 130	Transparent, elastic, very high green strength, short open time, excellent bond strength, very high heat and cold resistance, water, hydrolysis and solvent resistant.

MITOPUR two-component polyurethane moulding compounds and adhesives for:

- making filter end-cups
- gluing filter media into end-cups, frames, cassettes ...
- gluing O-rings

Characteristics of adhesives

- Hard and hard-elastic adhesives
- Excellent adhesion on all types of metals, paper, non-woven and plastic materials
- Fast-curing adhesives for high serial production
- Good gap-filling properties
- VISION line products with bio-based ingredients
- Compliant with ISO 846 & VDI 6022 in antimicrobial resistance



Characteristics of gluing joints

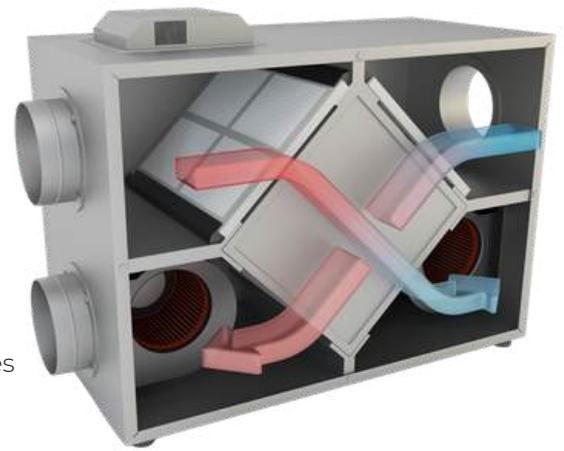
- Water resistance
- Good adhesion to various media
- Temperature resistance from -40°C to +160°C
- Retains its elasticity also at low temperatures
- High final strength
- Long-term quality

SELECTION OF TWO COMPONENT POLYURETHANE MOULDING COMPOUNDS AND ADHESIVES

Product	Colour	Mixing ratio by weight A : B	Viscosity at 23°C (mPas)	Pot life (min)	Special properties
MITOPUR B7 - hardener/ B Component					
MITOPUR A1/3	beige	81,5 : 18,5	5.000 – 8.000	3-5	Hard adhesive, good gap-filling properties, compliant with food regulations EU 10/2011, temperature resistance from - 40°C to + 160°C, VISION line product.
MITOPUR A1/5	beige	81,5 : 18,5	5.000 – 8.000	5-7	
MITOPUR A4/3	beige	80 : 20	2.500 - 4.500	3-6	Hard adhesive, excellent resistance, VISION line product.
MITOPUR A8/3	beige, grey	81,5 : 18,5	1.500 - 4.500	2-5	Hard adhesive, optimum flow properties, VISION line product.
MITOPUR A9/4 VISION	light brown	2:1	approx . 1.000	3,5-5,5	Hard-elastic, low density, compliant with ISO 846 & VDI 6022 in antimicrobial resistance, 70% bio-based raw ingredients, VISION line product.

MITOMONT hybrid adhesives for

- Assembly gluing and sealing



Characteristics of adhesives:

- Odourless, free of solvents, isocyanate & silicones
- Excellent adhesion to various surfaces, also on wet substrates
- Strong, flexible and highly resistant joint
- High initial tack and pasty form allow gluing also on vertical surfaces
- Fills cracks and unlevelled surfaces
- Compliant with ISO 846 in antimicrobial resistance

Characteristics of gluing joints:

- Permanently elastic and strong joint
- Final strength up to 4,0 N/mm² ; 40 kg/cm²
- Can be painted (use of solven-based paints is not recommended)
- Weather resistant, also in seaside climate conditions
- Temperature resistant from – 40 °C to +90 °C
- UV-stable
- Mould-resistant

SELECTION OF HYBRID ADHESIVES:

Product	Base	Viscosity (mPas)	Special properties
MITOMONT HP 50 (white, black, grey)	STP hybrid	pasty	Bonding and sealing of almost all materials. Compliant with ISO 846 in antimicrobial resistance.
MITOMONT HP 70 VISION (white)	STP hybrid	pasty	Bonding and sealing of almost all materials. Compliant with ISO 846 in antimicrobial resistance, EMICODE EC1 PLUS – very low emission.

MEKOL dispersion adhesives for

- Gluing & joining of filter media
- Cardboard frame assembly

Characteristics of adhesives:

- Water-based, solvent- and odour-free adhesives
- Easy processing & cleaning
- Cost-saving



SELECTION OF DISPERSION ADHESIVES:

Product	Base	Viscosity (mPas)	Application temperature (°C)	Special properties
MEKOL 1413/G	PVAc dispersion	at 23°C: 15.000 – 22.000	20	Good wet tack, long open time, for manual or machine application.
MEKOL 1318/1	EVA dispersion	at 23°C: 8.500 – 13.000	20	Good adhesion to various porous filter media, for manual or machine application.

Adhesive solutions for every manufacturing challenge.



**TAILOR-MADE
SOLUTIONS**



**CONNECTIONS
WITH OUR R&D
& TECHNICAL TEAMS**



**LAB & ON-SITE
TESTING**



**FLEXIBLE
SOLUTION
DELIVERY**



MITOL is the leading Slovenian producer of adhesives providing innovative and effective solutions in the field of gluing for more than 75 years. With reliable, technologically advanced products and superior customer service we have managed to build close relationship with our partners in more than 35 countries around the globe. Being aware of the sustainability challenges we devote special attention to the selection of materials and production processes that reduce environmental impact.



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