

Kisling



Overview

Adhesives and Sealants



BONDABILITY OF DIFFERENT MATERIALS

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OVERVIEW OF ACCESSORIES

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BONDABILITY OF DIFFERENT MATERIALS

● very well suited ● well suited ○ moderately suited Empty field = not suited

Category of plastics	Plastic types	Cyanoacrylates	Cyanoacrylates + primer	Anaerobics	Epoxy, 2 components	Acrylates/MMA, NoMix	Acrylates/MMA, 2 components	Hybrid polymers	RTV Silicones	Pretreatment of the surface with cleaner 9190	Prior treatment of the surface with cleaner 9195	Optional method, mechanical roughening	Optional method, physical roughening (plasma, corona...)
Thermoplastics	ABS*	●	●		●		●	●	●		●		
	ASA*	●	●		○		●	●	●		●		
	LCP	○	○		○	○	○			●	●	●	●
	PA6	●		○	○	○	○	●	●	●	●	●	
	PBT	●	●		○		○	●	●	●	●	●	●
	PC*	●			●		●	●	●		●		
	PE		●							●	●		●
	PEEK	○	○		○	○	○	○	○	●	●	●	●
	PEI	●			●	○	○	○	●	●	●	●	●
	PES*	●			○		○	●	●		●		●
	PET	●	●		○	○	○	●	●	●	●		●
	PI	●			●	●	●	●	●	●	●		●
	PMMA*	●			○		●	●	●		●		
	POM		○							●	●		
	PP		●							●	●	●	●
	PPO*	●	○		○			○	○		●		
	PS*	○			○		○	○	○		●		
	PTFE		○							●	●		
	PVC-P	●						○	○	●	●		
	PVC-U	●	●		●		●	●	●		●	●	
	SAN	●			○		●	○	●		●		
	PU*	○	●		●		○			●	●	●	
Thermo-setting plastics	EP	●			●	●	●	●	●	●	●	●	
	MF	○			●	●	●	●	○	●	●	●	
	PF	○			●	●	●	●	●	●	●	●	
	UP	●			●	●	●	●	●	●	●	●	
Elastomers	CR	●	●		○			○	○	●	●	●	
	EPDM	○	●		○					●	●	●	
	IR	●	●							●	●	●	
	NBR	●	●		○		●	○	○	●	●	●	
	NR	●	●							●	●	●	
	PU	○	●							●	●	●	
	SBR	●	●							●	●	●	
	SI		○						○	●	●	●	○
	TPE	●	●		○	○	○	○	○	●	●	●	○
Other	Cardboard	○						○	○				
	Wood	●			●		○	○	○			○	
	Leather	○						○	○			○	
	Glass	○		○	●	●	○	●	●	●	●	○	
	Ceramics	○		○	●	●	●	●	●	●	●		
	Ferrites	○		○	●	●	●	●	●	●	●		
	Metals	○		●	●	●	●	●	●	●		●	

* Plastics tend to be sensitive to stress cracking

Overview of structural adhesives

ergo.® NO-MIX ADHESIVES						
	Colour	Viscosity [mPas]	Tensile shear strength Alu/Alu [N/mm²] (DIN EN 1465)	Temperature range [°C]	Reaction time [sec.]	Package size
ergo.® 1039 (gel)	colourless opaque	gel	>15	-55 to +150	<45	50g / 300g
ergo.® 1090 (activator) for ergo.® 1039	slightly brownish	low viscosity				10ml / 50ml
ergo.® 1451 (gel)	slightly yellowish	gel	>18	-55 to +120	<30	50g
ergo.® 1093 (activator) for ergo.® 1451	light blue	low viscosity				10ml / 50ml
ergo.® 1452 (set)	slightly yellowish	gel	>18	-55 to +120	<30	set of 5 items - 1g/0,5ml
ergo.® 1470 (adhesive)	green	low viscosity		-60 to +180	10-20	1 kg
ergo.® 1471 (activator) for ergo.® 1470	turquoise	low viscosity				1 kg

ergo.® METHACRYLATE-BASED STRUCTURAL ADHESIVES									
	Colour	Viscosity [mPas]	Tensile shear strength Alu/Alu [N/mm²] (DIN EN 1465)	Elongation at break [%] (DIN 53504)	Temperature range [°C]	Mixing ratio	Pot life [min.]	Initial strength [min.]	Final strength [hrs]
ergo.® 1307	white/green	~5 000	>20	~20	- 40 to + 130	1:1	2-5	10	12
ergo.® 1315	white/green	~6 500	>20	~20	- 40 to + 150	1:1	1-2	5-6	12
ergo.® 1320	beige/black	~5 000	>20	~20	- 40 to + 130	1:1	2-3	5-6	12
ergo.® 1620	beige/white	~100 000 tx	>16	~160	- 40 to + 100	10:1	2	5	24
ergo.® 1630	beige/white	~100 000 tx	>16	~160	- 40 to + 100	10:1	20	45	24
ergo.® 1645	beige/white	~100 000 tx	>20	~30	- 40 to + 100	10:1	7	15	24
ergo.® 1650	beige/white	~100 000 tx	>20	~30	- 40 to + 100	10:1	20	45	24
ergo.® 1665	white/blue	~100 000 tx	>19	~75	- 55 to + 120	10:1	3-6	8-13	24
ergo.® 1675	white/blue	~100 000 tx	>18	~85	- 55 to + 120	10:1	2-3	8-13	12
ergo.® 1680	white/blue	~100 000 tx	>17	~65	- 55 to + 120	10:1	8-12	17	24
ergo.® 1810	red/green	~ 5 000 tx	>25	~50	- 40 to + 150	1:1	3-5	10	12
ergo.® 1915	white/green	~15 000 tx	>20	~8	- 50 to + 150	1:1	2-3	10	12
ergo.® 1920	yellowish/bluegreen	~20 000 tx	>18	~30	- 40 to + 110	1:1	7	8	2
ergo.® 1925	yellowish/bluegreen	~20 000 tx	>19	~30	- 40 to + 110	1:1	20	25	4

tx = thixotrop

The products are available in common packaging sizes, starting from 50 ml.

ergo.® EPOXY-BASED STRUCTURAL ADHESIVES

	Colour	Viscosity [mPas]	Tensile shear strength Alu/Alu [N/mm ²] (DIN EN 1465)	Temperature range [°C]	Mixing ratio	Pot life [min.]	Initial strength [hrs]	Final strength [hrs]
ergo.® 7410	colourless/bright yellow	8 000 - 11 000	~13	-60 to +100	1:1	3	7 min.	48
ergo.® 7415	grey	pasty	~13	-60 to +100	1:1	3	7 min.	48
ergo.® 7420	colourless/bright yellow	40 000 - 45 000	~25	-40 to +100	1:1	100	7	72
ergo.® 7430	grey	pasty	~23	-60 to +100	1:1	40-50	4	96
ergo.® 7440	black	pasty	~25	-60 to +180	2:1	40-60	3	96
ergo.® 7490	black	pasty	~33	-40 to +180	2:1	120	8.5	120

The products are available in common packaging sizes, starting from 50 ml.

ergo.® EPOXY-BASED REPAIR STICKS

	Colour	Viscosity [mPas]	Tensile shear strength Alu/Alu [N/mm ²] (DIN EN 1465)	Temperature range [°C]	Mixing ratio	Pot life [min.]	Final strength [hrs]	Package size
ergo.® 7800	steel	modeling clay	4	-50 to +120	-	4	3	114g
ergo.® 7810	aluminium	modeling clay	4	-50 to +120	-	4	3	114g

ergo.® POTTING COMPOUNDS

	Base	Colour	Viscosity [mPas]	Mixing ratio	Pot life [hrs]	Temperature range [°C]
ergo.® 3210	silicone	black	~5 000	1:1 (v:v)	1-2	-40 to +200
ergo.® 7350	epoxy	white	~4 500	5:1 (w:w)	~2	-40 to +180
ergo.® 7360	epoxy	beige	~2 750	100:171:22 (w:w:w)	~1	-40 to +100
ergo.® 7375	epoxy	yellow	~900	200:39 (w:w)	~1	-40 to +100
ergo.® 7390	epoxy	colourless	~500	4:1 (w:w)	~45 min.	-40 to +180

Overview of **bonding and sealing**

ergo. [®] RTV SILICONES												
	Colour	Chemical base	Viscosity [mPas] (Shear rate 10s ⁻¹)	Viscosity [mPas] (Shear rate 100s ⁻¹)	Tensile strength [N mm ²] (DIN 53504 S2)	Elongation at break [%] (DIN 53504 S2)	Temperature range [°C]	Skin formation [min.]	Density [g/cm ³]	Cure Through in 24 h at 23°C/50% r.h. [mm]	Shore-A-hardness (DIN 53505)	Package size
ergo. [®] 3110	black	mod. oxime silicone	70 000	20 000	2,0	~500	-60 to +260	~7	1,25	2-3	30	200ml / 310ml
ergo. [®] 3120	red	mod. oxime silicone	70 000	20 000	2,0	~500	-60 to +315	~7	1,25	2-3	26	200ml / 310ml
ergo. [®] 3130	blue	mod. oxime silicone	70 000	20 000	2,0	~500	-60 to +260	~7	1,25	2-3	30	200ml / 310ml
ergo. [®] 3140	colourless	mod. oxime silicone	20 000	8 000	1,0	~400	-60 to +260	~7	1,05	2-3	15	200ml / 310ml
ergo. [®] 3160	grey	mod. oxime silicone	70 000	20 000	2,0	~500	-60 to +260	~7	1,25	2-3	30	200ml / 310ml

* pot life

ergo.® HYBRID POLYMERS												
			Colour	Viscosity [mPas] (Shear rate 10s ⁻¹)	Viscosity [mPas] (shear rate 100s ⁻¹)	Tensile shear strength [N/mm ²] (DIN 53504)	Elongation at break [%] (DIN 53504)	Temperature range [°C]	Shore-A-hardness (DIN 53505)	Skin formation [min.]	Full curing 24 h at 23°C/50% rh [mm]	Package size
ergo.® 6200	1K	white		120 000	45000	>3	500	-40 to +90	42	10	3,0	310ml
ergo.® 6205	1K	black		120 000	45 000	>3	500	-40 to +90	42	25	3,0	310ml
ergo.® 6300	1K	white		300 000	140 000	>3,2	400	-40 to +90	55	10	3,0	310ml
ergo.® 6305	1K	black		300 000	140 000	>3,2	400	-40 to +90	55	10	3,0	310ml
ergo.® 6521	1K	transp.		150 000	100 000	>2	400	-40 to +90	35	10	3,0	310ml
ergo.® 6565	1K	grey		self-levelling		>2,8	200	-40 to +90	40	5	3,0	600ml

Primer available on request

Hazard marking-free adhesives and sealants

The use of adhesives and sealants is not risk-free for one's health. Reactive adhesives and sealants contain substances that may cause skin irritation and allergic skin reactions. Therefore, their use requires special precautions in the field of occupational safety. In all countries, employers are required to comply with the national laws on occupational safety. The European regulation 89/391/EEC is in reference to these duties in article 6.

20 years ago Kisling made the strategic decision to gear new product developments towards health-friendly adhesives. By implementing this development strategy, Kisling has taken a leading position in carrying a comprehensive adhesive product range with „white“ safety data sheets. These products are free of hazard pictograms.



THE KISLING SUSTAINABILITY LABEL

All our hazard-free adhesives and sealants bear the Kisling sustainability label. This label stands for highest quality, performance and sustainability in all phases of the product life cycle, from purchase to production and manufacturing to disposal.

LONG TIME ESTABLISHED ADHESIVES AND SEALANTS FOR TOUGH JOBS

Driven by our commitment to sustainable products, Kisling contributes significantly to a sound balance between functionality, health protection and occupational safety, also in your enterprise. Kisling adhesives that are exempt from hazard pictograms have for 20 years been in successful operational use with customers around the globe. The over 20 adhesives with „white“ safety data sheets are fully up to highest industrial quality and performance standards.

COMPELLING REASONS FOR USING ADHESIVES WITH A „WHITE“ SAFETY DATA SHEET

- Increased health and safety at the workplace
- Minimization of skin irritations and allergies
- Reduction in incidents of workers on sick leave
- Reduced environmental footprint
- Extensive range of products for a wide variety of applications

Overview of anaerobic adhesives

ergo.® ANAEROBIC ADHESIVES											
	Designation	Colour	Viscosity [mPas]	Breakaway torque [Nm] (DIN 54454)	Prevailing torque [Nm]	Compressive shear strength [N/mm²] (DIN 15337)	max. gap [mm]	max. thread size	Temperature range [°C]	Final strength at 25°C [hrs]	Approvals, Registrations
ergo.® 4003	Threadlocker low strength	purple	1 000	>10	>2	>10	0,2	M 36	-55 to +150	10	-
ergo.® 4050	Threadlocker medium strength	blue	150	>15	>7	>8	0,15	M 12	-55 to +150	10	-
ergo.® 4052	Threadlocker medium strength	blue	2 200 tx	>21	>10	>20	0,25	M 36	-55 to +150	3	1/2/3/4
ergo.® 4100	Threadlocker high strength	red	1 500 tx	>20	>35	>20	0,25	M 36	-55 to +150	6	1/2
ergo.® 4101	Threadlocker high strength	green	700	>25	>40	>20	0,15	M 25	-55 to +150	10	1/2
ergo.® 4115	Threadlocker high strength heat resist	red	10 000 tx	>23	>23	>25	0,2	M 36	-55 to +200	24	-
ergo.® 4202	Hydraulic sealant medium strength	brown	600	>14	>16	>8	0,15	3/4"	-55 to +150	6	-
ergo.® 4203	Hydraulic sealant low strength	purple	17 000 tx	>2	>1	>1	0,15	3/4"	-55 to +150	24	-
ergo.® 4205	Pipe sealant low strength with Teflon®	white	17 500 tx	>5	>4	>5	0,3	3"	-55 to +200	12	1/2/3
ergo.® 4207	Pipe sealant universal medium strength	yellow	23 000 tx	>10	>10	>6	0,5	3"	-55 to +150	6	1/2/3/4
ergo.® 4208	Pipe sealant high strength	red	2 500	>25	>30	>27	0,2	2"	-55 to +175	24	-
ergo.® 4209	Pipe sealant high strength	red	6 500	>25	>35	>20	0,3	2"	-55 to +150	24	1
ergo.® 4211	Pipe sealant med. strength heat resist	purple	11 000 tx	>15	>19	>7	0,2	2"	-55 to +175	24	4
ergo.® 4212	Pipe sealant with Teflon® low strength	white	240 000 tx	>4	>1	>2	0,5	3"	-55 to +150	24	1/2/3



Products without hazard pictograms according to (EG) Nr. 1272/2008 in paragraph 2.2

tx: thixotropic

Approvals/Registrations:

1.) NSF - ANSI 61 = Approved for use in contact with drinking water.

2.) NSF - P1 = Listed for use in food processing areas, without direct contact to food.

3.) DVGW / DIN EN751-1 = Approved for use in threaded gas leading connections. According to DVGW TRGI 2008, in Germany not allowed for use in household gas-installations.

4.) KTW = Complies with the guide formulation of the German Federal Environment Agency, published 2016, February 11th, for use in contact with drinking water.

	Designation	Colour	Viscosity [mPas]	Breakaway torque [Nm] (DIN 54454)	Prevailing torque [Nm]	Compressive shear strength [N/mm ²] (DIN 54452)	Tensile strength [N/mm ²]	max. gap [mm]	max. thread size	Temperature range [°C]	Final strength at 25°C [h]	Approvals, Registrations
ergo.® 4252	Flange sealant low strength	green	20 000 tx	>6	>3	>4	>2	0,30		-55 to +150	24	1/2
ergo.® 4253	Flange sealant universal medium strength	orange	34 000 tx	>8	>5	>5	-	0,50		-55 to +150	24	1/2
ergo.® 4254	Flange sealant flexibel medium strength	red	250 000 tx	>18	>10	>18	>14	0,50		-55 to +150	72	-
ergo.® 4280	Flange sealant high strength heat resist.	red	80 000 tx	-	-	>12	>10	0,50		-55 to +200	12	1/2
ergo.® 4301	Impregnating agent medium strength	green	50	>18	>30	>12	-	0,07	M 5	-55 to +150	6	-
ergo.® 4401	Retaining compound medium strength	yellow	500	-	-	>8	-	0,15	M 12	-55 to +150	3	-
ergo.® 4430	Retaining compound high strength	green	150	>25	>40	>25	-	0,15	M 12	-55 to +150	6	1/2
ergo.® 4451	Retaining compound high strength	green	2 500	>25	>40	>27	-	0,20	M 36	-55 to +150	4	1/2
ergo.® 4453	Retaining compound high strength heat resist.	green	550	>25	>40	>27	-	0,15	M 20	-55 to +175	4	1/2/3/4
ergo.® 4460	Retaining compound high strength heat resist.	green	13 000	>25	>25	>25	-	0,20	M 36	-55 to +200	24	4
ergo.® 2453	UV / Anaerobic Retaining compound high strength heat resist.	trans-parent	550	>25	> 40	> 27	-	0.15	M 20	-55 bis +175	4	-



Products without hazard pictograms according to (EG) Nr. 1272/2008 in paragraph 2.2

ergo.® AUXILIARY PRODUCTS FOR ANAEROBIC ADHESIVES

	Designation	Colour	Package size
ergo.® 4900	activator	turquoise	100g / 1kg
ergo.® 4910	activator	blue-green	100g / 1 kg

Overview of **Cyanoacrylate instant adhesives**

ergo.® CYANOACRYLATE INSTANT ADHESIVES									
	Designation	Colour	Viscosity [mPas]	Tensile shear strength Steel/Steel [N/mm ²] (DIN EN 1465)	Temperature range [°C]	Curing time (sec.)			Approvals, Registrations
						Alu	CBR	EPDM	
ergo.® 5011	Universal	colourless	100	20	-30 to +80	50	5	10	1/2
ergo.® 5012	Universal	colourless	90	15	-30 to +80	65	7	25	
ergo.® 5014	Universal	colourless	2 000	15	-30 to +80	60	8	10	
ergo.® 5039	Universal Gel	colourless	thixotropic	24	-30 to +80	100	21	30	
ergo.® 5300	Elastomer	colourless	30	-	-30 to +80	25	3	2	1/2
ergo.® 5925	Elastomer	colourless	30	-	-30 to +80	60	5	7	1/2
ergo.® 5950	Plastics	colourless	5	-	-30 to +80	28	5	6	
ergo.® 5400	Plastics	colourless	30	-	-30 to +80	35	3	2	1/2
ergo.® 5713	Plastics	colourless	1 200	-	-30 to +80	60	6	10	
ergo.® 5200	Metall	colourless	5	18	-55 to +80	20	-	-	
ergo.® 5210	Metall	colourless	400	14	-55 to +105	35	-	-	
ergo.® 5634	Metall	colourless	2 800	18	-55 to +120	90	-	-	
ergo.® 5861	Porous	colourless	100	17	-55 to +85	35	5	10	1/2
ergo.® 5880	Flexible	black	150	20	-55 to +120	35	25	25	
ergo.® 5889	Special	colourless	400	14	-55 to +105	30	12	17	
ergo.® 5901 	Low odor	colourless	6	12	-30 to +100	100	15	65	
ergo.® 5922 	Low odor	colourless	60	12	-30 to +100	100	25	18	
ergo.® 5923 	Low odor	colourless	1 000	12	-30 to +100	100	32	28	



Products without hazard pictograms according to (EG) Nr. 1272/2008 in paragraph 2.2

Approvals/Registrations:

- 1.) NSF - ANSI 61 = For use in contact with drinking water.
- 2.) NSF - P1 = Listed for use in food processing areas.

ergo.® 2K CYANACRYLATE

	Designation	Colour	Viscosity [mPas]	Tensile shear strength Steel/Steel [N/mm ²] (DIN EN 1465)	Temperature range [°C]	Curing time (sec.)			Package size
						Alu	CBR	EPDM	
ergo.® 5370	2K Repair	colourless	thixotropic	16	-55 to +80	10	10	10	10g
ergo.® 5380	2K Flexible	colourless	thixotropic	7	-55 to +80	90	20	20	10g

ergo.® AUXILIARY PRODUCTS FOR CYANOACRYLATE INSTANT ADHESIVES

	Designation	Colour	Use	Package size
ergo.® 5150	Primer	colourless	Adherence improving product for difficult to bond materials such as PA12, PE, PETP, PI, POM, PP, PTFE, MVQ, TPE, etc.	10ml / 50ml / 1l
ergo.® 5100	Activator	colourless	Accelerator for instant adhesives	150ml / 1l

ergo.® GENERAL AUXILIARY PRODUCTS FOR BONDING AND SEALING

	Designation	Colour	Use	Package size
ergo.® 9153	Adhesive remover	colourless	Adhesive remover to absorb liquid adhesives, dissolve and remove cured surpluses or residues	20ml / 1l / 20l
ergo.® 9190	Metal cleaner	colourless	Cleaning and degreasing product for metals, ferrites, ceramics and glass	150ml / 500ml / 5l / 10l
ergo.® 9195	Plastics cleaner	colourless	Cleaning and degreasing product for plastics	150ml / 500ml / 5l

Overview of dosing equipment and accessories

Quadro- and Helix mixer

With us you will find a wide selection of suitable mixers. For this purpose we're pleased to support you and to send you our complete overview.

Screw-in nozzles (Set of 10 pieces)

310ml	Hybrid polymer eurocartridge	Type 4472039
310ml	Hybrid polymer triangular screw-in nozzle	Type 4472051
310ml	Hybrid polymer Rika screw-in nozzle	Type 4472052
200ml	Dispenser for pressure pack	Type 4432012

Manual applicator guns for ergo.® 2K adhesives

50ml	Twin cartridges 1:1 and 2:1	Type 4472101
50ml	Twin cartridges 10:1	Type 4472105
200ml	Twin cartridges 1:1 and 2:1	Type 4472300
400ml	Twin cartridges 1:1	Type 4472303
490ml	Twin cartridges 10:1	Type 4472320

Pneumatic applicator guns for ergo.® 2K adhesives

50ml	Twin cartridges 1:1 and 2:1	Type 4472111
200ml	Twin cartridges 1:1 and 2:1	Type 4472200
200ml	Twin cartridges 10:1	Type 4472305
400ml	Twin cartridges 1:1	Type 4472306
490ml	Twin cartridges 10:1	Type 4472321

Pneumatic applicator guns for eurocartridges

310ml	Eurocartridges	Type 4472307
310ml	Jetflow	Type 4472311

Pneumatic applicator guns with spray function for foil sausages

400ml and 600ml foil sausages	Type 4472309
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Dosing system and accessories

	Cartridge dosing appliance with accessories	Type 4481106
5 cc	Polypropylene cartridges transparent	Type 4496001
10 cc	Polypropylene cartridges transparent	Type 4496002
30 cc	Polypropylene cartridges transparent	Type 4496003
55 cc	Polypropylene cartridges transparent	Type 4496007
5 cc	Cartridge connector with tube, filter and quick coupling	Type 4496011
10 cc	Cartridge connector with tube, filter and quick coupling	Type 4496012
30/55 cc	Cartridge connector with tube, filter and quick coupling	Type 4496013
5 cc	Cartridge end caps	Type 4496031
10 cc	Cartridge end caps	Type 4496032
30/55 cc	Cartridge end caps	Type 4496033
5 cc	Cartridge piston polyethylene	Type 4496041

10 cc	Cartridge piston polyethylene	Type 4496042
30/55 cc	Cartridge piston polyethylene	Type 4496043
	Cartridge needle closure	Type 4496061
	Protection filter for dosing appliance	Type 4496062

Special application accessories

Dosing nozzles with PTFE application, Inside 0.26mm, pink	Type 4496070
Dosing nozzles with PTFE application, Inside 0.60mm, grey	Type 4496071
Charge brush for thin fluid media, soft-bristled	Type 4496063
Charge brush for thin fluid media, stiff-bristled	Type 4496064

Disposable needles nylon/stainless steel, Luer-Lock for ergo.® fittings and cartridge dosing, 12mm long (set of 25 pieces)

Inside 0.16mm, lavender	Type 4492101
Inside 0.21mm, transparent	Type 4492111
Inside 0.26mm, red	Type 4492121
Inside 0.34mm, orange	Type 4492131
Inside 0.41mm, blue	Type 4492141
Inside 0.51mm, purple	Type 4492151
Inside 0.60mm, pink	Type 4492161
Inside 0.84mm, green	Type 4492171
Inside 1.37mm, peach	Type 4492181
Inside 1.55mm, olive	Type 4492191

Polyethylene dosing nozzles, Luer-Lock, for ergo.® fittings and cartridge dosing appliance (set of 25 pieces)

Inside 0.26mm, red	Type 4492561
Inside 0.41mm, blue	Type 4492501
Inside 0.58mm, pink	Type 4492511
Inside 0.84mm, green	Type 4492521
Inside 1.20mm, grey	Type 4492531
Inside 1.55mm, olive	Type 4492541

Polyethylene dosing nozzles, Luer-Slip, for ergo.® fittings and cartridge dosing appliance (set of 50 pieces)

Inside 0,50 mm, transparent	Type 4492011
Inside 1,00 mm, transparent	Type 4492022

Overview of dispensing guns and mixers

				DISPENSING GUNS										MIXERS													
	Product	Designation	Mixing ratio	4472101 Dispensing gun, manual / 1:1 and 1:2 / 50 ml	4472105 Dispensing gun, manual / 10:1 / 50 ml	4472111 Dispensing gun, pneumatic / 1:1 and 2:1 / 50 ml	4472200 Dispensing gun, pneumatic / 1:1 and 2:1 / 200 ml	4472300 Dispensing gun, manual / 1:1 and 1:2 / 200 ml	4472303 Dispensing gun, manual / 1:1 and 2:1 / 400 ml	4472306 Dispensing gun, pneumatic / 1:1 and 2:1 / 400 ml	4472320 Dispensing gun, manual / 10:1 / 490 ml	4472321 Dispensing gun, pneumatic / 10:1 / 490 ml	4472033 Helix B-Sys MKHX 02-16S / 10:1 / 10 ml	4472063 T-Mixer B-Sys MBT 3.2-12-S / 1:1 & 2:1 / 50 ml	4472066 T-Mixer+Spit B-Sys MBT 4.2-12-D / 1:1 & 2:1 / 50 ml	4472007 Helix B-Sys MBH 05-20T / 1:1 & 2:1 / 50 ml	4472055 Helix+Spit B-Sys MBH 05-12D / 1:1 & 2:1 / 50 ml	4472046 Quadro B-Sys MBQ 05-16L / 1:1 & 2:1 / 50 ml	4472043 Helix B-Sys MBHX 05-16T / 4:1 & 10:1 / 50 ml	4472047 Quadro F-Sys MFQ 07-24T / 1:1 & 2:1 / 200 ml	4472058 Helix F-Sys MFH 08-18T / 1:1 & 2:1 / 200 ml	4472038 Helix F-Sys MFHX 10-18T / 10:1 / 490 ml	4472074 Quadro B-Sys MBXQ 05-16L / 10:1 / 50 ml	4472075 Quadro F-Sys MFQX 07-24T / 10:1 / 490 ml	4472076 Quadro F-Sys MFQ 10-24T / 1:1 & 2:1 / 200 & 400 ml		
(Methyl) methacrylates	1307.050.DK	Universal structural adhesive	1:1	●		●								●	●	●	●	●									
	1315.050.DK	Universal structural adhesive	1:1	●		●								●	●	●	●	●	●								
	1320.050.DK	Universal structural adhesive	1:1	●		●								●	●	●	●	●	●								
	1620.050.DK	Universal structural adhesive	10:1		●															●							
	1620.490.DK	Universal structural adhesive	10:1								●	●								●				●			
	1640.050.DK	Universal structural adhesive	10:1		●															●							
	1640.490.DK	Universal structural adhesive	10:1								●	●								●				●			
	1645.050.DK	Universal structural adhesive	10:1		●															●							
	1645.490.DK	Universal structural adhesive	10:1								●	●								●				●			
	1650.050.DK	Universal structural adhesive	10:1		●															●							
	1650.490.DK	Universal structural adhesive	10:1								●	●								●				●			
	1665.050.DK	Universal structural adhesive	10:1		●															●				●			
	1665.490.DK	Universal structural adhesive	10:1								●	●								●				●		●	
	1675.050.DK	Rapid structural adhesive	10:1		●															●				●			
	1675.490.DK	Rapid structural adhesive	10:1								●	●								●				●		●	
	1680.050.DK	Rapid structural adhesive	10:1		●															●							
	1680.490.DK	Rapid structural adhesive	10:1								●	●												●		●	
	1810.050.DK	Structural adhesive, metal/ ferrite	1:1	●		●									●	●	●	●	●								
	1915.050.DK	Structural adhesive, metal/ ferrite	1:1	●		●									●	●	●	●	●								
	1920.050.DK	Universal structural adhesive	1:1	●		●									●	●	●	●	●								
	1925.050.DK	Universal structural adhesive	1:1	●		●									●	●	●	●	●								
Epoxy	7410.050.DK	Epoxy Rapid universal	1:1	●		●									●	●		●									
	7410.200.DK	Epoxy Rapid universal	1:1				●	●													●	●				●	
	7410.400.DK	Epoxy Rapid universal	1:1						●	●											●	●				●	
	7415.050.DK	Epoxy Rapid universal	1:1	●		●													●								
	7420.050.DK	Epoxy Slow universal	1:1	●		●											●		●								
	7420.200.DK	Epoxy Slow universal	1:1				●	●													●	●				●	
	7430.050.DK	Epoxy Strong universal	1:1	●		●											●		●								
	7430.200.DK	Epoxy Strong universal	1:1				●	●													●	●				●	
	7430.400.DK	Epoxy Strong universal	1:1						●	●											●	●				●	
	7440.050.DK	Epoxy, high strength	2:1	●		●											●		●							●	
	7440.200.DK	Epoxy, high strength	2:1				●	●													●	●				●	
	7440.400.DK	Epoxy, high strength	2:1						●	●											●	●				●	
	7490.050.DK	Epoxy, impact-resistant	2:1	●		●											●		●								
	7490.200.DK	Epoxy, impact-resistant	2:1				●	●													●					●	
	7490.400.DK	Epoxy, impact-resistant	2:1						●	●											●					●	
CA	5370.010.DK	2K-Repair CA	10:1										●														
	5380.010.DK	2K-Flexible CA	10:1										●														

Overview of dispensing guns and mixers

			DISPENSING GUNS			MIXERS		
	Product	Designation	4472304 Dispensing gun, Euro cartridge manual / 310 ml	4472309 Dispensing gun Jetflow flow bag pneumatic / 400-600 ml	4472311 Dispensing gun Jetflow Euro cartridge pneumatic / 310 ml	4472039 Screw nozzle natural, 310 ml	4472051 Screw nozzle RIKA, 310 ml	4472052 V nozzle, 310 ml
Silicones	3110.310.KT	RTV silicone – black (MEKO-free)	●		●	●	●	●
	3120.310.KT	RTV silicone – red (MEKO-free)	●		●	●	●	●
	3130.310.KT	RTV silicone – blue (MEKO-free)	●		●	●	●	●
	3140.310.KT	RTV silicone – transparent (MEKO-free)	●		●	●	●	●
	3160.310.KT	RTV silicone – grey (MEKO-free)	●		●	●	●	●
MS polymers	6200.310.KT	MS hybrid polymer, white	●		●	●	●	●
	6205.310.KT	MS hybrid polymer, black	●		●	●	●	●
	6300.310.KT	MS hybrid polymer, white	●		●	●	●	●
	6305.310.KT	MS hybrid polymer, black	●		●	●	●	●
	6521.310.KT	MS hybrid polymer, transparent	●		●	●	●	●
	6565.600.TT	MS hybrid polymer, grey		●				



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