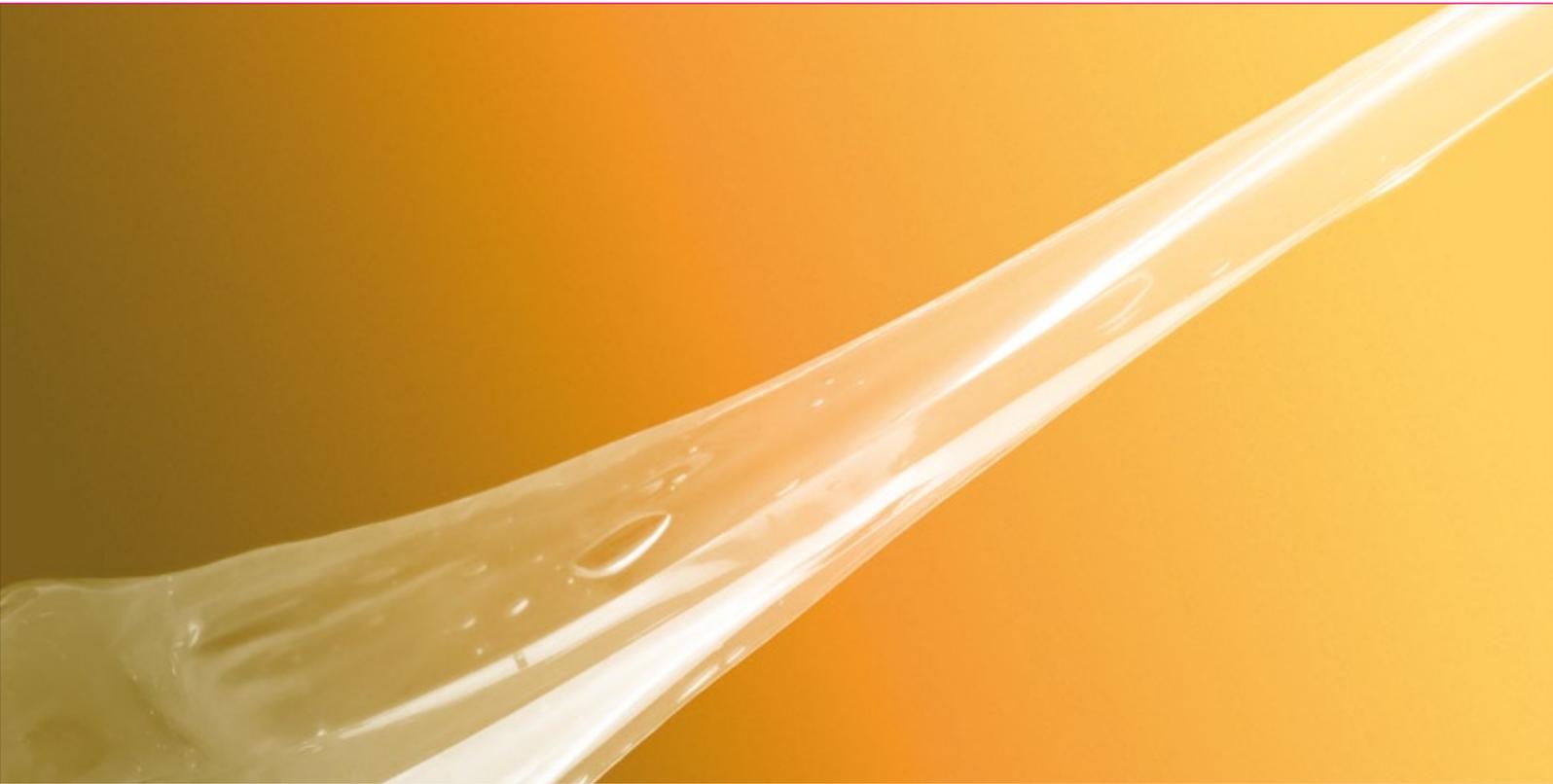


INDUSTRIAL ADHESIVES

AND SPECIALIST QUALITY PRODUCTS



Metoflux[®]

— THE PROBLEM-SOLVERS

Metaflux[®]



The triumphant march of the new aerosol technology began in Europe in 1955, with the first businesses being established specifically to manufacture sprays. For the next 20 years, this new sector concentrated on putting existing liquids and active ingredients into spray cans.

In 1975, the Swiss company METAFLEX AG brought out a completely new design of spray, one which for the first time ever enabled problem-free coating of steel with zinc, achieving quality levels that exceeded all international standards. In addition to its engineered sprays and cleaners, the Metaflux product range was extended to include industrial adhesives over 20 years back. At first this involved cyanoacrylate adhesives (known as rapid or quick-drying adhesives), later followed by anaerobic products (screw retainers, joint fillers etc.) and sealants.

Today the range of industrial adhesives comprises over 40 products, covering practically every application in industry, manufacturing and in the applied crafts. To satisfy our customers' high demands, only the best and purest of raw materials are processed and used for these products.

Every year sees newly-developed products added to our range, with these METAFLEX principles remaining constant throughout:

- The highest possible technical quality
- The lowest possible air contamination in the workplace
- Maximum consideration for the environment

Strict respect for these principles guarantees that METAFLEX products will continue to be a leading international product range in the future.

Your Metaflux customer no.:



Metaflux - compelling quality

Welcome to METAFLEX!

The combination of German and Swiss production and marketing companies creates an international brand with an emphasis on three principles worldwide:

- The highest possible technical quality
- A comprehensive production programme
- Individual customer advice and support

Metaflux products *repay the investment many times over*. Experience our high standards for yourself, and draw inspiration from this catalogue for any of the following:

- ▶ Metallic coatings
- ▶ Lubricants
- ▶ Multifunction sprays
- ▶ Welding protection
- ▶ Upkeep
- ▶ Maintenance
- ▶ Cleaning
- ▶ Abrasive engineering
- ▶ Adhesives

We are pleased to offer on-site advice and assistance – just call us in!

Our outstandingly-trained technical consultants will be pleased to present our full range of products to you – naturally, without obligation.

CHALLENGE US – WE DELIVER!

Overview of technical properties

Article number	Description	Viscosity mPas at 25°C	Strength	Strength rating	Colour	Hard to the touch, in minutes	Working strength, in hours	Gap bridged, in mm	Max. screw	Breakaway torque in Nm	Shear resistance DIN 5445 N/mm	Combined tension/ shear resistance N/mm ²	Licensed	Temperature resistance °C	Contents
76-10	Cyanoacrylate adhesive	35			transparent	10 sec.	24	0.05				19		-60 to +80	20 g
76-12	Cyanoacrylate adhesive	1,200			transparent	10 - 30 sec.	24	0.15				19		-60 to +80	20 g
76-15	Cyanoacrylate adhesive	1,500			transparent	10 - 30 sec.	24	0.15				21		-60 to +80	20 g
76-20	Gel rapid adhesive	30,000			transparent	20 - 60 sec.	24	0.5				19		-60 to +80	20 g
76-0110	Rapid adhesive 110	80			transparent	10 - 30 sec.	24	0.03				14		-60 to +80	20 g
76-0405	Rapid adhesive 405	2,500			transparent	20 - 90 sec.	24	0.35				21		-60 to +135	20 g
76-30	Screw retainer	1,000	low	1	purple	15	1 - 3	0.2	M24	4 - 8	3 - 5			-55 to +150	50 g
76-35	Screw retainer	1,000	average	2	blue	10 - 20	1 - 3	0.2	M24	14 - 18	8 - 12			-55 to +150	50 g
76-37	Screw retainer	2,000 - 5,000	average	2	dark blue	10 - 20	1 - 3	0.25	M36	17 - 22	9 - 13		DVGW	-55 to +150	50 g
76-38	Screw retainer	500	high	3	green	10	1 - 3	0.15	M20	28 - 35	15 - 20			-55 to +150	50 g
76-40	Joint filler	10	high	3	green	10	1 - 3	0.07		15 - 25	15 - 20			-55 to +150	50 g
76-45	Pipework and hydraulic sealant	40,000 - 80,000			white						2 - 4		DVGW	-55 to +150	70 g
76-0511	Pipework and threaded joint retainer	20,000	average	2	white	20 - 40	1 - 3	0.3		7 - 10	4 - 6			-55 to +150	50 g
76-0542	Pipework and threaded joint sealant	500	average	2	brown	10 - 20	1 - 3	0.15		12 - 16	8 - 12			-55 to +150	50 g
76-46	Permanently elastic universal sealant	paste			blue	15	15 min.	0.2					DVGW + KTW	-55 to +250	80 ml
76-58	Universal sealant	paste			blue	10	10 min.	0.2						-50 to +250	200 ml
76-60/-61/-62	Technoflex PU adhesive	paste			grey/white/black	45	2 - 4					>18		-40 to +90	310 ml
76-63	Silicone sealant, red	paste			red	15	24	15						-60 to +300	200 ml
76-64	Silicone sealant, transparent	paste			transparent	15	24	15						-60 to +200	200 ml
76-65	Silicone sealant, black	paste			black	15	24	15						-60 to +250	200 ml
76-66	Assembly adhesive	paste			white	15	24	25				2,2		-40 to +100	290 ml
76-80	Duo-Power-Fix	90,000			yellow	12 - 15	24	4				29		-50 to +120	28 g
76-81	Duo-Power-Fix	90,000			yellow	12 - 15	24	4				29		-50 to +120	56 ml
76-84	Liquid metal	100,000			grey	10 - 15	24	4				25		-50 to +120	25 ml

Quickfinder - by product description

Article name	Art. No.	Page	Article name	Art. No.	Page
Activator for cyanoacrylates	76-01	8	"Profi" cartridge press	76-85	17
Applicator gun	76-82	17	Rapid adhesive 110	76-0110	9
Assembly adhesive	76-66	14	Rapid adhesive 405	76-0405	9
Citrus cleaner spray	75-17	17	Rapid adhesive gel	76-20	9
Cyanoacrylate adhesive	76-10	8	Rapid adhesive remover	76-0099	9
Cyanoacrylate adhesive	76-12	8	Rapid cleaner spray	70-15	17
Cyanoacrylate adhesive	76-15	8	Screw retainer	76-30	10
Dual-fix adhesive tape 19 mm	76-5519	16	Screw retainer	76-35	10
Duo-Power-Fix 2-component	76-80	15	Screw retainer	76-37	11
Duo-Power-Fix 2-component	76-81	15	Screw retainer	76-38	11
E-Tape 38 mm	76-56	16	Sealant & adhesive remover	70-33	17
Intensive cleaner	75-27	18	Silicone sealant, red	76-63	14
Intensive cleaner >Special<	75-34	18	Silicone sealant, black	76-65	14
Joint filler	76-40	11	Silicone sealant, transparent	76-64	14
Kneading resin	70-21	13	Spray adhesive	70-11	13
Liquid metal	76-84	15	Technoflex PU adhesive, grey	76-60	14
Metaseal PTFE sealing tape	76-57	13	Technoflex PU adhesive, black	76-61	14
Mixing nozzle	76-83	17	Technoflex PU adhesive, white	76-62	14
Permanently elastic universal sealant	76-46	12	Universal sealant, elastic	76-58	13
Pipe and hydraulic sealant	76-45	12	Vulcanised repair tape	76-50	16
Pipe-thread sealant 620	76-0542	12	Vulcanised repair tape	76-51	16
Pipe-thread retainer	76-0511	12			

Table of Contents

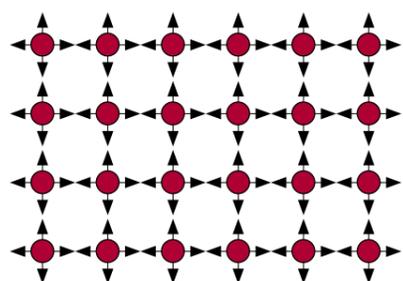
	page
Overview of technical properties	4
Cyanoacrylate adhesives	8
Anaerobic adhesives	10
Sealants	12
Adhesive and sealing compounds	13
Adhesive tapes	16
Accessories and cleaners	17
Cleaners	18
Publishing details	19

Basic principles of adhesive engineering

Adhesives create a permanent bond between two parts. The adhesive layer applied hardens, depending on the type of adhesive, either through drying or through a chemical reaction, thereby holding the materials together. Two physical factors influence the durability of the bond: the adhesion of the glue to the surface of the work pieces, and the internal cohesion of the adhesive itself.

Adhesion:

Adhesion refers to how the adhesive sticks to the surface of the part of the joint. Within a solid substance, the bonding forces between the molecules are balanced.



But at the edges, there are a greater or fewer number of bonds free. If another material comes close enough, it can come within the effective range of these forces. Everyone is familiar with the phenomenon of a wet sheet of paper sticking to a pane of glass, for instance.

Bonds in a solid body:

The effective range of these adhesion forces is well under one micrometer. But since surfaces exhibit surface roughness, these forces are barely able to take effect without a bonding agent – the adhesive.

It means that the adhesive must reach very close to the molecules in the part of the joint – it needs to moisten it well. But not every material can be moistened equally well using a liquid, since this property is dependent on the surface energies of the materials.

Strong adhesion or sticking of an adhesive to the material to be glued together is always achieved if there is as close a contact as possible between the surface of the working part and the adhesive. For that reason, the surfaces to be glued must be clean, and free of grease or dust. Adhesion can be further improved with roughening using emery paper, because this increases the surface of the material.

When gluing work pieces, adhesion is improved by roughening the surface. This makes for an even closer contact when joining the parts.

When fresh, an adhesive is relatively fluid, which is why it moistens the surface of the work piece (which is heavily pitted, seen under the microscope) completely and forms an ideal bridging medium between the parts to be glued together. However, this bond cannot carry any load. It is only once the adhesive in close contact with the surfaces to be bonded has hardened through drying or chemical reaction that the joint can be exposed to mechanical stress.

Cohesion is also important for the robustness of a bonded joint. This term refers to the end-strength of the hardened adhesive.

Moistening a material:



I = very good II = good
III = poor IV = none

Cohesion:

The robustness of the now permanently-forged contact between the bonded materials is dependent on the cohesion, i.e. the internal strength of the adhesive after hardening. It is achieved through the “felting” of long, thread-like chains of molecules.

Applying stress to adhesive joints:

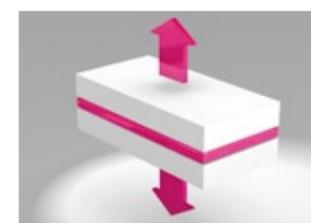
If an adhesive joint has been carefully executed, then millions of adhesive bridges between the hardened adhesive and the surfaces of the materials ensure a joint which is capable of handling high stresses. Where this involves pulling or shearing stresses (see graphics), the stress is distributed evenly over the entire bonded surface.

However, in the case of what is referred to as peeling stress, the forces attack the outer edge of the joint in a concentrated manner, and the relatively few adhesion bridges need to accommodate the entire load. Under some circumstances, the glued section may break. This can be mitigated by reinforcers, such as an additionally-glued stiffening edging strip.

Particularly at risk are relatively thin adhesive joints where the narrow sides of work-pieces are brought together. Here it is possible to increase the load-bearing strength by enlarging the adhesive surfaces through tapered overlapping (see graphics) or stabilizing the bonded area using bracing applied to one or both sides.

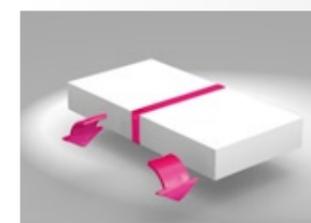
Preparation of surfaces to be glued

- Clean surface to remove rust, paint residues, adhesive residues and other contaminants (e.g. using 75-17 Citrus cleaner spray or 70-33 Sealant and adhesive remover)
- Roughen the surface using abrasion
- If necessary, thoroughly degrease surfaces to be glued. Suitable products for this are e.g.:
Metaflux 70-15 Quick cleaner spray
Metaflux 75-27 Intensive cleaner
Metaflux 75-34 Intensive cleaner >Special<
- Allow areas to be glued to dry out
- Avoid touching prepared surfaces, to avoid transfer of oil from the skin
- Apply adhesive evenly and thinly
- Keep dirt and dust away from surfaces freshly covered with adhesive (e.g. desist from grinding and milling work)

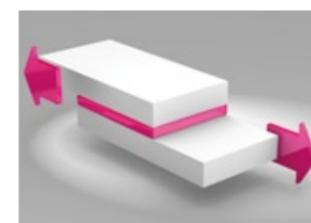


Glued materials are relatively robust against **tensile stress**.

Here the attacking force is distributed over the entire glued area.

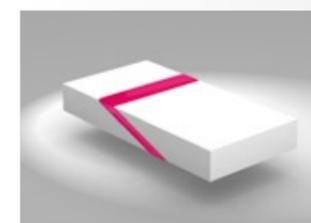


With a **thin adhesive surface**, there is a high risk of breaking apart.

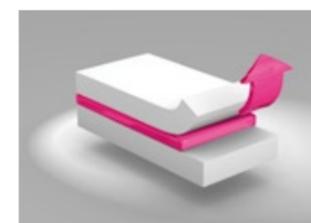


Forces are likewise distributed favourably with **shearing stresses**.

Carefully executed, a glued joint like this is unlikely to come apart.

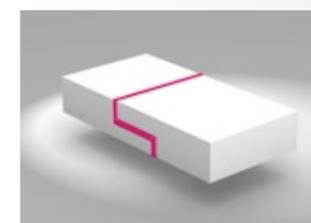


An **angled joint** enlarges the adhesive surface.

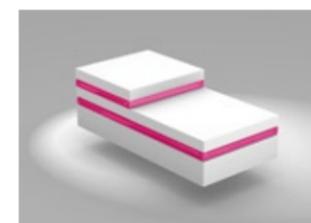


Glued joints exposed to **peeling stresses** are relatively at risk.

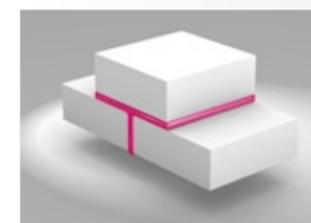
Here a limited number of adhesion bridges must resist the load on them.



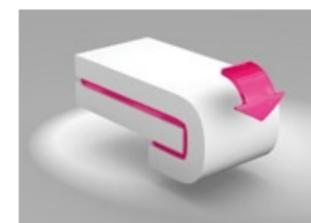
Even better hold is achieved with a **stepped joint**.



To protect the glued edges of flexible materials against peeling stress, additional reinforcing **edge strips** can be glued on.



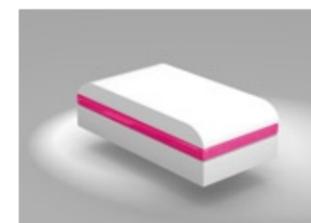
Strengthening using a **single-side brace**.



Foils glued onto rigid materials can also be protected in the **edge area** by taking the film down right around the edge.



Ideal: protect the bond using **two braces**.



A further option for countering peeling stress is to **round off the edge**, thus reducing the area liable to attack.

If you are not sure what is appropriate for your intended field of application, please contact our technical advisers.

Cyanoacrylate adhesives

(Rapid / Quick-drying adhesives)



76-01

Activator for cyanoacrylates

Spray to accelerate hardening for:

- Inactive materials
- Large layer thicknesses
- Unfavourable ambient conditions

Advantages / Pack size

- Allows for gluing of inactive materials
- Fast
- Easy to use

76-01 200 ml spray can
1 pack = 12 cans

76-10

Cyanoacrylate adhesive (thin liquid)

Viscosity	35 mPas
Tension/shear resistance	19 N/mm ²
Temperature	-60 °C to +80 °C
Colour	transparent / colourless
Dry to touch	10 seconds
End strength	24 hours
Gap bridging	0.05 mm

- Rapid adhesive
- Ethyl ester base
- Quick-hardening

76-10 20 g bottle
1 pack = 25 bottles



76-12

Cyanoacrylate adhesive (medium-thick liquid)

Viscosity	1,200 mPas
Tension/shear resistance	19 N/mm ²
Temperature	-60 °C to +80 °C
Colour	transparent / colourless
Dry to touch	10 - 30 seconds
End strength	24 hours
Gap bridging	0.15 mm

- Rapid adhesive
- Ethyl ester base
- Quick-hardening

76-12 20 g bottle
1 pack = 25 bottles



76-15

Cyanoacrylate adhesive (thick liquid)

Viscosity	1,500 mPas
Tension/shear resistance	21 N/mm ²
Temperature	-60 °C to +80 °C
Colour	transparent / colourless
Dry to touch	10 - 30 seconds
End strength	24 hours
Gap bridging	0.15 mm

- Rapid adhesive
- Methyl ester base
- Quick-hardening

76-15 20 g bottle
1 pack = 25 bottles



76-20

Rapid adhesive gel

Viscosity	30,000 mPas
Tension/shear resistance	19 N/mm ²
Temperature	-60 °C to +80 °C
Colour	transparent / colourless
Dry to touch	20 - 60 seconds
End strength	24 hours
Gap bridging	0.5 mm

Advantages / Pack size

- Rapid adhesive
- Quick-hardening
- Does not drip or run
- For smooth and porous surfaces
- Ethyl ester basis

76-20 20 g tube
1 pack = 20 tubes

76-0099

Cyanoacrylate/Rapid adhesive remover

For quick and easy removal of adhesive residues from many materials, such as leather, upholstered surfaces, plastics etc.

Viscosity	3 mPas
Colour	transparent

- Easy to use
- Highly effective

76-0099 20 g bottle
1 pack = 25 bottles



76-0110

Rapid adhesive 110

Viscosity	80 mPas
Tension/shear resistance	14 N/mm ²
Temperature	-60 °C to +80 °C
Colour	transparent / colourless
Dry to touch	10 - 30 seconds
End strength	24 hours
Gap bridging	0.03 mm

- Rapid adhesive
- Low odour
- No bloom
- Alcoxy base

76-0110 20 g bottle
1 pack = 25 bottles



76-0405

Rapid adhesive 405 (135°C)

Viscosity	2,500 mPas
Tension/shear resistance	21 N/mm ²
Temperature	-60 °C to +135 °C
Colour	transparent / colourless
Dry to touch	20 - 90 seconds
End strength	24 hours
Gap bridging	0.35 mm

- Rapid adhesive
- For high temperatures up to 135 °C
- Ethyl ester base

76-0405 20 g bottle
1 pack = 12 bottles



Anaerobic adhesives (screw retainer / sealant)

76-30

Screw retainer (low strength)

Viscosity	1,000 mPas
max. Gewinde	M 24
Colour	pupur
Dry to touch	15 minutes
Working strength	1 - 3 hours
Gap bridging	0.2 mm
Breakaway torque	4 - 8 Nm
Shear resistance	3 - 5 N/mm ²
Temperature-resistant	-55 °C to +150 °C

Advantages / Pack size

- Anaerobic (hardens without oxygen finish)
- Solvent-free
- Prevents corrosion
- Quick-hardening
- Can be loosened again using a wrench, if necessary
- Low strength

76-30 50 g bottle
1 pack = 10 bottles



76-35

Screw retainer (medium to high strength)

Viscosity	1,000 mPas
Max. thread	M 24
Colour	blau
Dry to touch	10 - 20 minutes
Working strength	1 - 3 hours
Gap bridging	0.2 mm
Breakaway torque	14 - 18 Nm
Shear resistance	8 - 12 N/mm ²
Temperature-resistant	-55 °C to +150 °C

- Anaerobic
- Solvent-free
- Prevents corrosion
- Normal hardening
- Can be loosened again if heat or strong force is applied
- Medium to high strength

76-35 50 g bottle
1 pack = 10 bottles



76-37

Screw retainer (medium strength)

Viscosity	2,000 - 5,000 mPas
Max. thread	M 36
Colour	dark blue
Dry to touch	10 - 20 minutes
Working strength	1 - 3 hours
Gap bridging	0.25 mm
Breakaway torque	17 - 22 Nm
Shear resistance	9 - 13 N/mm ²
Temperature-resistant	-55 °C to +150 °C

Advantages / Pack size

- DVGW licensed
- Anaerobic
- Solvent-free
- Prevents corrosion
- Quick-hardening
- Can only be loosened if significant heat is applied
- Medium strength

76-37 50 g bottle
1 pack = 10 bottles



76-38

Screw retainer (ultra-strong)

Viscosity	500 mPas
Max. thread	M 20
Colour	green
Dry to touch	10 minutes
Working strength	1 - 3 hours
Gap bridging	0.15 mm
Breakaway torque	28 - 35 Nm
Shear resistance	15 - 20 N/mm ²
Temperature-resistant	-55 °C to +150 °C

- Anaerobic
- Solvent-free
- Prevents corrosion
- Quick-hardening
- Can only be loosened if significant heat is applied
- Ultra-strong

76-38 50 g bottle
1 unit = 10 bottles



76-40

Joint filler (ultra-strong)

Viscosity	10 mPas
Colour	green
Dry to touch	10 minutes
Working strength	1 - 3 hours
Gap bridging	0.07 mm
Breakaway torque	15 - 25 Nm
Shear resistance	15 - 20 N/mm ²
Temperature-resistant	-55 °C to +150 °C

- Anaerobic
- Solvent-free
- Prevents corrosion
- Quick-hardening
- Can be loosened again if heat is applied
- Ultra-strong

76-40 50 g bottle
1 pack = 10 bottles



Sealants



76-45

Pipe and hydraulic sealant

Viscosity	40,000 - 80,000 mPas
Colour	white
Compression shear strength	2 to 4 N/mm ²
Torque	2 to 4 Nm
Temperature-resistant	-55 °C to +150 °C



Advantages / Pack size

- Paste-type sealing liquid, DVGW-licensed
- Licensed for natural gas
- License no.: NV-51 42AT0399
- Reliably seals pipe joints to R 3" up to 10 bar instantly

76-45 70 g tube
1 pack = 14 tubes



76-0511

Pipe-thread retainer (low strength)

Viscosity	20,000 mPas
Colour	white
Dry to touch	20 - 40 minutes
Working strength	1 - 3 hours
Gap bridging	0.3 mm
Breakaway torque	7 - 10 Nm
Shear resistance	4 - 6 N/mm ²
Temperature-resistant	-55 °C to +150 °C

- High-quality seal
- Replaces hemp, PTFE and solid seals
- Parts can be set in place immediately after being joined together
- Additional corrosion protection
- With PTFE additive

76-0511 50 g bottle
1 pack = 10 bottles



76-0542

Pipe-thread and hydraulic sealant

Viscosity	500 mPas
Colour	brown
Dry to touch	10 - 20 minutes
Working strength	1 - 3 hours
Gap bridging	0.15 mm
Breakaway torque	12 - 16 Nm
Shear resistance	8 - 12 N/mm ²
Temperature-resistant	-55 °C to +150 °C

- High-quality seal
- Replaces hemp, PTFE and solid seals
- Parts can be set in place immediately after being joined together
- Additional corrosion protection
- Can also be used as a hydraulic sealant

76-0542 50 g bottle
1 pack = 10 bottles



76-46

Permanently-elastic universal sealant

With different combinations of materials, in fluctuating temperatures and where there is movement, Metaflux Universal Sealant should be used. Hardening sealants tend to form hairline cracks. Also suitable for plastic-plastic and metal-plastic joints.

Viscosity	permanently elastic
Colour	blue
Temperature-resistant	-55 °C to +250 °C Short-term up to 300 °C

- Very good adhesion to sealing surface
- Quickly ready to use, no corrosion
- Resistant to many media
- Can be used universally for many different seals
- Easy to disassemble
- Isocyanate-free
- Fully load-bearing after 15 minutes

76-46 80 ml tube
1 pack = 10 tubes



Adhesive and sealing compounds



70-11

Spray adhesive

Max. heat resistance	up to 80 °C
Colour	off-white
Density	0.705 g/cm ³

Suitable for e.g.:

Paper, photos, card, textiles, cork, glass wool, felt, wood, carpet tiles, metallic films, wood wool slabs, chipboard and many more.

Advantages / Pack size

- Ideal for large-area glued joints
- Quick-bonding
- Very good bonding strength
- Resistant to humidity
- Practical and clean to use
- Economical to use
- Adheres reliably and firmly to surfaces
- Newly-developed dosable spray head for large-area or targeted application
- Resistant short-term up to 100°C

70-11 400 ml spray can
1 pack = 12 cans



70-21

Kneading resin

Heat-resistant	up to +200 °C
Compressive strength	7,840N/cm ² (800 Kp/cm ²)
Tensile strength	2,940 N/cm ² (300 kp/cm ²)
Curing	3 hours at 20°C
Specific gravity	2.0

- Quick repair – 2-component epoxy resin
- Easy to use
- Can also be used underwater
- Can be painted over

70-21 1 kg plastic box
75-2150 400 g plastic box



76-57

Metaseal PTFE sealing tape

Colour	white
Temperature-resistant	-200 °C to +240 °C

Approved under:

DIN DVGW, WRAS, ASTM, BAM, UL Listed



- 100% PTFE thread sealant
- Forms precisely the PTFE film needed to seal threaded joints
- Adapts to any pipe diameter
- Resistant to most chemicals, liquids, solvents, acids, oils and gases

76-57 175 m reel with protected knife and integrated anti-seize agent



76-58

Universal sealant, elastic

Viscosity	paste-like
Colour	blue
Dry to touch	10 minutes
Working strength	10 hours
Gap bridging	0.2 mm
Temperature-resistant	-55 °C to +250 °C

- Instant seal
- Even seams, can be separated easily
- Accurate dosing
- Effortless working, even in difficult-to-access locations
- Resistant to most oils, greases, lubricants and fuels, additives, gases, water, anti-freeze agents and many others

76-58 200 ml sprayer can

Adhesive and sealing compounds

76-60 / 76-61 / 76-62

Technoflex PU adhesive, grey, b, w

Permanently elastic strong-bonding 1-component PU adhesive and sealant

Quickly and securely bonds metals, aluminium, copper, CrNi, hard plastics, glass, wood, stone, concrete to one another or each other

Temperature-resistant	-40 °C to +90 °C Short-term up to 150 °C
Colour	grey, black, white
Curing	3 mm/24 hours

Advantages / Pack size

- Sticks to vertical surfaces
- Highly resistant to weathering and aging (UV-resistant)
- Odour-neutral
- Resistant to fresh and salt water
- Can be rubbed down and painted over
- Permanently elastic

76-60 310 ml cartridge, grey
76-61 310 ml cartridge, black
76-62 310 ml cartridge, white



76-63 / 76-64 / 76-65

Silicone sealant, r, t, b

Viscosity	paste-like
Colour	red, transparent, black
Dry to touch	15 minutes
Working strength	24 hours
Gap bridging	15 mm
Temperature-resistant	-60 °C to +300 °C (76-63) -60 °C to +200 °C (76-64) -60 °C to +250 °C (76-65)

- Bridges gaps of various sizes to seal them
- Resistant to: water, salt-water, cleaning agents, hydrocarbons, greases, oils, diluted acids and lyes

76-63 200 ml pressurized cartridge, red
76-64 200 ml pressurized cartridge, transp.
76-65 200 ml pressurized cartridge, black

Model applications:

- Valve covers, oil tanks, water pumps, differential seals, Battery casings, headlights, rear lamps, protective housings etc.



76-66

Assembly adhesive

Viscosity	paste-like
Colour	white
Dry to touch	15 minutes
Working strength	24 hours
Gap bridging	25 mm
Tension/shear resistance	2.2 N/mm ²
Temperature-resistant	-40 °C to +100 °C

Can be used on:

Metal, ceramics, stone, concrete, plastic, wood

- Very high initial strength
- Permanently elastic and can be used universally
- Sticks to vertical surfaces
- Odour-free
- Highly resistant to weathering and UV
- Can be varnished or painted over
- Isocyanate-free, silicon-free

76-66 contents 290 ml



76-80 / 76-81

Duo-Power-Fix 2-component

Viscosity	90,000 mPas
Colour	off-yellow
Dry to touch	12 - 15 minutes
Working strength	24 hours
Gap bridging	4 mm
Tension/shear resistance	29 N/mm ²
Temperature-resistant	-50 °C to +120 °C

Possible uses:

- On vehicles, for repairs and bodywork (e.g. dashboard, heating, spoilers, speakers, phone etc.)
- Metal construction, plastics industry, wood construction
- Trade fair stands and model-building
- Electronics, electro-mechanics, building, decoration etc.

Also available:

Mixing nozzle **76-83**



76-84

Liquid metal

Viscosity	100,000 mPas
Colour	grey
Dry to touch	10 - 15 minutes
Working strength	24 hours
Gap bridging	4 mm
Tension/shear resistance	25 N/mm ²
Temperature-resistant	-50 °C to +120 °C

Possible uses:

- On vehicles, for bodywork and machine parts
- pipes, tanks, threads etc.

Also available:

Mixing nozzle **76-83**



Advantages / Pack size

- Rapid-hardening high performance universal adhesive
- Good resistance to chemicals, water and heat
- High impact strength, tensile strength and shearing strength
- Good vibration resistance
- Can be used inside and outdoors
- After opening, easily re-sealed by replacing the cap

76-80 contents 28 g
76-81 contents 56 ml



- Metaflux Liquid Metal automatically has the right mix ratio
- Can be machined manually or using machinery (e.g. drilling, milling, thread-cutting, grinding/polishing, sawing)
- Colour treatments possible
- When hardened, resistant to water, petrol, oil, alcohol etc.

76-84 contents 25ml



Adhesive tapes

76-50

Vulcanised repair tape

Sealant and insulating tape to seal, insulate and for repairs in electrical, sanitary or vehicle applications and in industry and craft-based applications.

Temperature-resistant	-40 °C to +100 °C
-----------------------	-------------------

Advantages / Pack size

- Automatically fuses together in contact with oxygen to form an absolutely air-and water-tight rubber layer
- Ozone, UV and chlorine-resistant
- Absorbs impacts
- Highly elastic

76-50 10 m; 19 mm wide

76-51

Vulcanised repair tape

Sealant and insulating tape to seal, insulate and for repairs in electrical, sanitary or vehicle applications and in industry and craft-based applications.

Temperature-resistant	-40 °C to +100 °C
-----------------------	-------------------

- Automatically fuses together in contact with oxygen to form an absolutely air-and water-tight rubber layer
- Ozone, UV and chlorine-resistant
- Absorbs impacts
- Highly elastic

76-51 10 m; 50 mm wide

76-5519

Dual-Fix adhesive tape

Double-sided special adhesive tape, closed-cell PE foam with an aging-resistant, firm-bonding acrylic adhesive, also suitable for outdoor use.

Temperature-resistant	-30 °C to +70 °C
Adhesive strength	25 N/25 mm
Tearing strength	> 45 (N/25 mm)
Elongation at tear	> 350 %

- Dual-sided adhesive tape
- After a short time, can be loosened again with no residues

76-5519 25 m; 0,9 mm thick; 19 mm wide

76-56

E-Tape

The PVC insulating tape comprises a rubber layer with an over-laminated PVC covering. Resistant to weathering, temperatures, many acids and alkalis, UV radiation and mechanical stress.

- High bonding strength
- Very high insulation resistance
- Highly resistant to most lyes and acids
- Easy to handle, no heating required
- Highly elastic

76-56 26 m; 0,6 mm thick; 36 mm wide

Accessories and cleaners

76-82

Applicator gun

Professional applicator gun for dual cartridges for gun use.

Also available:
Mixing nozzle **76-83**

Advantages / Pack size

- Easy to handle
- Highly robust metal finish
- Accurate spot-dosing possible

76-82 Applicator gun

76-83 Mixing nozzle

76-85

"Profi" cartridge press

Robust cartridge press for professional use. Cartridge chamber in powder-coated metal.

- Robust cartridge press
- Easy to handle
- Ergonomic shape
- With quick-stop function operated using thumb press
- Long working life
- Non-slip handle

76-85 "Profi" cartridge press

70-33

Sealant & adhesive remover

Colour	off-white
Density	0.76 g/cm ³

- Given the high-viscosity formula (gel), highly suitable even on vertical surfaces
- Removes PU adhesives and silicon (including once hardened), stubborn sealant, adhesive and paint residues, cyanoacrylate and anaerobic adhesive residues

70-33 400 ml spray can
1 pack=12 cans

70-15

Rapid cleaner spray

Colour	colourless
Density	0.703 g/cm ³

- Rapid cleaning with no vapours presenting a risk to health
- Non-irritating, completely residue-free
- Specially recommended for cleaning brakes, oil-burners and electronic circuits
- Does not attack rubber or plastics

70-15 400 ml spray can
1 pack =12 cans

75-17

Citrus cleaner spray

Colour	colourless
Density	0.826 g/cm ³
pH	7.0
Temperature range	-30 °C to +70 °C

- Special cleaner
- Rapid drying of treated surface
- High concentration of active ingredient
- Pleasantly fresh odour

75-17 400 ml spray can
1 pack =12 cans

Cleaners

75-27

Intensive cleaner

Temperature range -30 °C to +70 °C

Neutral cleaner based on natural active ingredients. Removes rubber residues and abrasions, oils, greases, resins, tar, paint and adhesive residues, pencil marks, ball-point pen and felt pen marks, and sticker marks.

Areas of use: Metalworks and stainless steel works, wharves, swimming pools, cleaning companies, landscape gardening, agriculture, sewage treatment works, window construction companies, printworks.

Can be used on: metal surfaces, glass, window frames, tools and machinery.

Advantages / Pack size

- Rapid drying of the treated surfaces
- Pleasantly fresh odour
- Natural active ingredients
- UV-stable
- Frost-tolerant

- 75-2710** 10 l canister
75-2720 20 l canister
75-2730 30 l canister
75-2702 200 l metal can

75-34

Intensive cleaner >SPECIAL<

Neutral cleaner based on citrus extracts for fast removal of stubborn oil, grease and adhesive residues, bitumen, lubricants, resins, abraded rubber and rubber residues. Specially suitable for removing cracking paint and sealing compounds.

Areas of use: Metalworks and stainless steel works, cleaning companies, agriculture, printworks, window construction companies, paintworks and varnishing works.

Can be used on: metal, stone, concrete, marble, tiles, wood and glass.

- Dries slowly - thereby increasing its effect
- Pleasantly fresh odour
- Natural active ingredients
- Can be emulsified with water
- UV-stable
- Frost-tolerant

- 75-3410** 10 l canister
75-3420 20 l canister
75-3430 30 l canister
75-3402 200 l metal can

Quickfinder - by article number

Artikelname	Art.-Nr.	Seite	Artikelname	Art.-Nr.	Seite
Spray adhesive	70-11	13	Pipe and hydraulic sealant	76-45	12
Rapid cleaner spray	70-15	17	Permanently-elastic universal sealant	76-46	12
Kneading resin	70-21	13	Vulcanised repair tape	76-50	16
Sealant & adhesive remover	70-33	17	Vulcanised repair tape	76-51	16
Citrus cleaner spray	75-17	17	Dual-Fix adhesive tape 19 mm	76-5519	16
Intensive cleaner	75-27	18	E-Tape 38 mm	76-5600	16
Intensive cleaner >Special<	75-34	18	Metaseal PTFE sealing tape	76-57	13
Rapid adhesive remover	76-0099	9	Universal sealant, elastic	76-58	13
Activator for cyanoacrylate	76-01	8	Technoflex PU adhesive, grey	76-60	14
Rapid adhesive 110	76-0110	9	Technoflex PU adhesive, black	76-61	14
Rapid adhesive 405	76-0405	9	Technoflex PU adhesive, white	76-62	14
Pipe-thread sealant 620	76-0542	12	Silicone sealant, red	76-63	14
Pipe-thread retainer	76-0511	12	Silicone sealant, transparent	76-64	14
Cyanoacrylate adhesive	76-10	8	Silicone sealant, black	76-65	14
Cyanoacrylate adhesive	76-12	8	Assembly adhesive	76-66	14
Cyanoacrylate adhesive	76-15	8	Duo-Power-Fix 2-component	76-80	15
Rapid adhesive gel	76-20	9	Duo-Power-Fix 2-component	76-81	15
Screw retainer	76-30	10	Applicator gun	76-82	17
Screw retainer	76-35	10	Mixing nozzle	76-83	17
Screw retainer	76-37	11	Liquid metal	76-84	15
Screw retainer	76-38	11	"Profi" cartridge press	76-85	17
Joint filler	76-40	11			

Publishing details

TECHNO-SERVICE GMBH
 Detmolder Strasse 515 Phone: +49 521 92444-0 Internet: www.metaflux.de
 33605 Bielefeld Fax: +49 521 207432 E-Mail: verkauf@metaflux.de

Managing Director: Dipl.-Kfm. Reinhard Deppermann, Commercial Register: Amtsgericht Bielefeld HRB 30328
 Responsible for content: TECHNO-SERVICE GMBH, Marketing Department

Reprinting or copying – including in extract form – of this catalogue requires the prior written consent of TECHNO-SERVICE GMBH.
 All rights reserved.

Photos: Cover © milosluz - Fotolia.com, Metaflux®, TECHNO-SERVICE GMBH
 Graphics and layout: www.poier.de - printed in Germany.

Note: all information and examples of applications (photographs of applications) in this brochure are based on extensive experience, gained over many years, in the manufacture of chemical products and their application. They are also based on external and internal testing in laboratories and in practical tests conducted in-house.

Due to the diversity of the products and their range of possible uses, we recommend that in the specific instance the proposed application is assessed on the basis of your own operational experience. Furthermore, technical data sheets and safety data sheets are available for all products, in each case reflecting the latest knowledge and understanding. Further to this, there are corresponding recommendations on each individual product pack.

Due to the range of possible applications, neither the manufacturer nor the marketing companies domestically or in other countries give a guarantee either expressly or tacitly as to particular outcomes from use of the product and the durability of same, or for the product lifetimes.

Date: September 2010 – E&OE. Original products may differ from the product photos shown. All information is non-binding and provided by way of illustration. No warranty claims can be derived from this information.



The METAFUX range of products comprises over 75 sprays and over 40 cleaners developed in-house, and every year sees fresh innovations added to this range. But one constant in all METAFUX development is the emphasis placed on these three guiding principles:

- The highest possible technical quality
- The lowest possible air contamination in the workplace
- Maximum consideration for the environment

Strict respect for these principles guarantees that METAFUX cleaners will continue to be an internationally leading product range going forward.



Metaflux is also your expert partner for:

- ▶ Technical sprays
- ▶ Welding products
- ▶ Industrial adhesives
- ▶ Cutting and grinding products.

Visit us on the internet at:

www.metaflux.de

METAFLUX INTERNATIONAL AG

Industriestrasse 11
CH-4313 Möhlin

Tel. +41 61 85108-00
Fax +41 61 85108-08

METAFLUX Austria GmbH

Fabriksgasse 3
A-2340 Mödling

Tel. +43 2236 20514-7
Fax +43 2236 20514-0

Metaflux in Germany: TECHNO-SERVICE GmbH

Detmolder Strasse 515
D-33605 Bielefeld

Tel. +49 521 924440
Fax +49 521 207432