



# Marston-Domsel GmbH

*Your partner for sealing, adhesive, safety and fixing systems*

Sealants

Adhesives

Protection

Fastening



[www.marston-domsel.de](http://www.marston-domsel.de)



## **MARSTON-DOMSEL GMBH** **Klebe- und Dichttechnik**

- Bergheimer Str. 15
- D-53909 Zülpich
- Tel.: +49 (0) 2252 / 9415 -0
- Fax: +49 (0) 2252 / 1744
- [www.marston-domsel.de](http://www.marston-domsel.de)
- [info@marston-domsel.de](mailto:info@marston-domsel.de)





# Content

## SEALANTS

MARSTON Cleaner, MARSTON universal-sealant, MARSTON DuraPress	6
MD SIL Oxime, MD SIL,	8
MD MS Polymer sprayable, MD MS Polymer, MD MS Polymer HT, MD MS 2K Polymer	10
MD MK 3000, MD MK Multi Fix	
MD FLEX PU, MD LIQUID BLOCK	14

## ADHESIVES

MD CA-STAR 2K, MD CA-STAR 2K met	16
MD Instant adhesive: MD GLUE, MD GEL	17
MD XTREME, MD PREMIUM CA adhesive	18
Overview MD GLUE	20
MD Activator CA No. 9, MD Accelerator	24
MD Remover, MD Filler, MD Primer No. 7	
MD UV Adhesive, MD UV-STAR	25

## PROTECTION

MD Screw retention	28
MD Bushing and bearing fastener	30
MD Pipe thread sealant	32
MD Surface sealant	34
MD Anaerobic in pump dispenser	36
MD Activator anaerobic No. 11	37

## FASTENING

MD Windscreen adhesive, MD Black primer	38
MD MIX	39
Overview 2K products	40
MD MEGABOND	42
MD CLEARBOND, MD PU SPEED, MD MET, MD POLY, MD POX	44
Selection guide for 2K adhesives	47

## SPECIAL PRODUCTS

MD Contact adhesive, MD Ceramic paste	48
MD Copper paste, MD Mirror adhesive set	49
MD Acryl-Tape, MD Multi-Tape	50
MD Silicone-Tape, MD Solar-Plax	51

## AEROSOLS

MD Aerosols for all kinds of purposes	52
Cleaning wipes	57

## WORK TOOLS

Work-Tools: dosing pistols, dosing nozzles, capillary nozzles	58
---	----

## PACKAGING

Bottles, tubes, cartridges	60
----------------------------	----



# About us

Excellent products for almost all industrial fields of application

MARSTON-DOMSEL manufactures and markets a lot of technically highly developed sealants, anaerobic liquid plastics and adhesives as well as other auxiliary materials worldwide for trade and industry.

## More experience – more innovation

Decades of experience have made MARSTON-DOMSEL a household name in the industry. We will continue to aim for the continuous optimisation of our product range in the future so that we can continue to set standards for functionality and performance. Problems are solved in collaboration with competent technicians not just in Germany but also worldwide. All internationally acquired experience is incorporated together with research results to the benefit of the customer.

## More functional reliability

The most modern process technologies are used for manufacturing from incoming goods through to despatch. The introduction of the DIN EN ISO 9001 quality management system has meant significant improvements in reproduction reliability. This reliability helps you to remain competitive in future and to count on the outstanding quality of the products. Some products are not rated "good" and "excellent" according to the strict criteria of the German consumer association „Stiftung Warentest" for nothing.

## Greater cost-effectiveness

The manufacturing facilities fulfill all relevant international standards. Due to optimised manufacturing processes MARSTON-DOMSEL can pass on the benefits of costeffective production to the customer.

## Technical support

With our internationally acquired experience new research results are analysed so that customers worldwide can count on a competent consulting service. The constant exchange of experience between MARSTON-DOMSEL and consumers will also help to continuously improve products in the future.

## Our own laboratory

We have our own laboratory, where we perform custom tests such as resistance tests, plasticity measurement, tensile measurements, temperature tests and viscosity measurements. Here we also test, analyse and check the functional safety of our own products so that we can continue to make improvements and offer you the best products possible.

## On-site consultation

Depending on the complexity of the situation, an on-site analysis may be useful in solving application problems. MARSTON-DOMSEL offers on-site technical consultation within Germany as well as worldwide. We offer product-specific training in all countries of the world so that we can share our experience.

## Tested quality matters to us!



We carry numerous approved products as well as various non-labelled products..

Geprüfte Qualität

Hygiene-Institut  
des Ruhrgebiets



KTW



## SEALANTS

High-quality one-component silicone sealants

The areas where sealants are used are as diverse as the areas of our daily life. MARSTON-DOMSEL manufactures a variety of technically highly developed sealants worldwide for trade and industry.



## ADHESIVES

Instant adhesives: various types and viscosities

Gluing technology is one of the oldest joining methods known to mankind. Long before screws, rivets, soldering and welding were invented adhesion was achieved by gluing. MARSTON-DOMSEL high performance adhesives ensure successful and secure adhesion in almost all fields of industry even under the toughest of conditions.



## PROTECTION

Screw retentions, bushing and bearing fasteners, pipe thread sealants, surface sealings

Loose bolts, e.g., can have fatal consequences in vehicle construction, for railways, aeroplanes as well as in engineering (turbines, pumps, construction machines etc.). This is why MARSTON-DOMSEL safety products play a major role in all areas in which vibration occurs, safety and quality is important.



## FASTENING

The new generation of MARSTON-DOMSEL high-performance adhesives and sealants offers outstanding functional properties even on the most difficult materials. The fixings specialists prove their strength wherever conventional sealants and adhesives can no longer fulfill the demanding requirements.



## SPECIAL PRODUCTS

MARSTON-DOMSEL offers customised solutions for a wide variety of applications and repair tasks regardless of whether they are in the professional industrial sector or for private purposes.

## WORK TOOLS

Dosing pistols, dosing nozzles, capillary nozzles

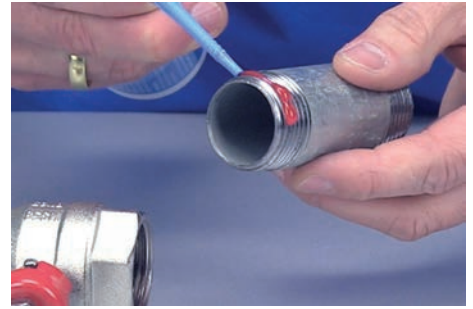
MARSTON-DOMSEL offers a complete service - from consulting and technologically advanced sealants, liquid plastics, anaerobic adhesives and maintenance of dosing nozzles technical equipment.



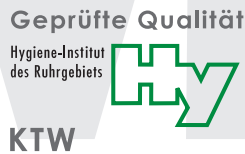
# MARSTON CLEANER

MARSTON Cleaner cleans sealing surfaces and frees them from oil and grease. MARSTON can be applied immediately.

- Thorough cleaning
- Rapid evaporation
- Frees surfaces of grease and oil at the same time
- New seals can be applied immediately



Approvals for our Marston Universal-sealant



product	article number	content	unit	packaging
Marston Universal-sealant	MMD.T20	20 g	20	tube
Marston Universal-sealant	MMD.T20-BK	20 g	10	tube, blister card
Marston Universal-sealant	MMD.T80	85 g	10	tube
Marston Universal-sealant	MMD.T80-BK	85 g	8	tube, blister card
Marston Universal-sealant	MMD.D250	250 g	12	brush-in-lid can
Marston Universal-sealant	MMD.D800	850 g	10	tin
Marston Universal-sealant	MMD.K200	200 g	12	DuraPRESS
Marston Universal-sealant	MMD.K300	330 g	20	cartridge
Marston Cleaner	MCL.D250	250 ml	12	tin
Marston Cleaner	MCL.D1000	1000 ml	10	tin
Marston Cleaner	MCL.K10	10 l	1	canister
Marston Cleaner Spray	MCL.Y400	400 ml	12	spray can



# MARSTON Universal-Sealant

Our permanently plastic universal sealant MARSTON has proved itself in all industrial areas and is used worldwide by leading industrial concerns.

Sealed with MARSTON means 100% sealed

Permanently plastic, economic in use, resistant to oils, greases, fuels, water, gas, air, anti-freeze etc.

- Permanently plastic
- Extremely good adhesion to the sealing surface
- Temperature resistance from approx. -55 to +270°C and up to +300 °C for short periods
- Ready for use quickly
- Resistant to many substances
- Universally applicable for many different sealing tasks
- Easy dismantling
- No corrosion

metal - metal

metal - plastic

plastic - plastic

## Marston DuraPRESS

With the newly developed DuraPress dosing system you can apply MARSTON sealant in the usual manner - top quality – with complete control. The new art of sealing in compressed-air technology permits effortless work within all areas regardless of whether precise dosing or long even joins are needed. Even areas, which are difficult to reach can be sealed overhead.

Seal properly with DuraPRESS

- Innovative pressure dosing
- Lasts for years
- Ready for use immediately
- Particularly for hard to reach places
- Precise dosing
- Trouble-free uniform joins
- Handy pressure cylinder form
- No residues in the 200 g cartridge

## Areas of application:

The automotive and motorcycle industries, tractor industry, engine and electrical industries, turbines and nuclear power stations, machine and transmission construction, the food-stuffs industry, mining, chemical and petrochemical industries, gas, water and electricity works etc.

## Processing note:

The sealing faces MARSTON CLEANER clean. MARSTON universal seal onto one side, with strong roughness on both sides and dry for about 10 minutes. Then assemble parts. After 10 minutes, once the screw. Are still tight. No longer waiting time required!



# MD SIL oxime

## MD SIL RTV Oxime tubes

- Weather and UV-resistant
- No corrosion
- Waterproofing for electronic components odorless
- High speed networking
- High temperature resistance

MD silicone 85 g tubes are supplied as blister packs - for customer-oriented presentation.



product	article number	content	unit	packaging
MD SIL transparent, oxime	MSI.T.T80-BK	85 g	8	tube, blister card
MD SIL transparent	MSI.T.K200	200 ml	12	automatic-cartridge
MD SIL transparent	MSI.T.K300	300 ml	12	cartridge
MD SIL black, oxime	MSI.S.T80-BK	85 g	8	tube, blister card
MD SIL black	MSI.S.K200	200 ml	12	automatic-cartridge
MD SIL black	MSI.S.K300	300 ml	12	cartridge
MD SIL black, oxime	MSI.S.K200-O	200 ml	12	automatic-cartridge
MD SIL red, oxime	MSI.R.T80-BK	85 g	8	tube, blister card
MD SIL red	MSI.R.K200	200 ml	12	automatic-cartridge
MD SIL red	MSI.R.K300	300 ml	12	cartridge
MD SIL aluminium	MSI.A.K200	200 ml	12	automatic-cartridge
MD SIL aluminium	MSI.A.K300	300 ml	12	cartridge
MD SIL gray, oxime	MSI.GRAU.K200-O	200 ml	12	automatic-cartridge



# MD SIL

## High-quality silicone sealant

This high-quality single-component silicone sealant vulcanises at room temperature. Outstanding cold, heat and ageing-resistance with an extensive range of uses.

- Optimum full hardening speed (3 mm/24 hours)
- Economic in use
- Simple handling
- Available in four colours (black, aluminium, clear and red)
- Red temperature-resistant up to +300°C
- Oxime - no corrosion and odourless

## Areas of use

The automotive industry (for oil sumps, transmissions, refrigeration industry, shipbuilding industry, caravan construction, many areas within the home, tractor construction, the engine and electrical industries, turbines and nuclear power stations, engineering and transmission manufacturing, mining, chemical and petrochemical industries, gas, water and electricity utilities and many more possibilities.

MD SIL is a high-quality single-component sealant, which vulcanises into silicone rubber at room temperature. MD SIL remains elastic with high adhesion and can therefore withstand dynamic stresses such as impacts and vibrations. MD SIL replaces conventional solid gaskets and can be used universally. MD SIL has very high temperature resistance from -60°C to +230°C, the red version up to +300°C.

## Product features

- Excellent cold, heat, and ageing resistance with a broad range of applications
- Can be applied to many substrates
- High viscosity
- Good media resistance

## Product description

MD SIL has an extremely high adhesion to metals. MD SIL prevents corrosion.

MD SIL Oxim black is a high-quality, heat-resistant, neutrally-crosslinking silicone sealant that is resistant to weathering, vibration, moisture, and high temperatures.

MD SIL cures after 24 h. After this time, it can withstand temperatures of up to +260°C. Under the influence of humidity, MD SIL vulcanises to form a durable rubber seal.

## Temperature resistance

### Automatic-cartridge 200 ml

transparent	-60°C to +260°C
black	-50°C to +260°C
black, oxime	-50°C to +250°C
gray, oxime	-60°C to +250°C
red	-60°C to +300°C
aluminium	-50°C to +260°C

### cartridge 300 ml

transparent	-50°C to +260°C
black	-50°C to +260°C
red	-60°C to +300°C
aluminium	-50°C to +260°C

### tube 85 g

transparent, oxime	-50°C to +250°C
black, oxime	-50°C to +250°C
red, oxime	-60°C to +300°C



# MD MS POLYMER sprayable

MD MS Polymer is sprayable sealant and seam sealer in one.

Sprayable seam sealer for overlapping plates and welds in the original structure. Good adhesion to metals (zinc, aluminum, steel), primed and painted metal, wood materials, many duro- and thermoplastics

- Sound inhibitory effect
- Solvent, isocyanate and silicone-free
- Very good UV-resistance and aging stability
- Spray and spreadable

A product for two applications

- Painted over immediately (wet-on-wet)
- Permanently elastic after curing
- Minimize the formation of cracks in the paint
- Improved stone guard
- Resistant to mechanical damage

MD MS Polymer sprayable adheres to most substrates without priming and primer.

- Rapid skin formation
- Vibration absorption
- Silicone and isocyanates
- Be spot welded in an uncured state

With a fast painting over the curing is not prevented but delayed.



# MD MS POLYMER

HIGH QUALITY ADHESIVE

- Isocyanate and silicone-free
- Can be painted over or coated
- Permanently elastic
- Applicable wet-on-wet
- Resistant to UV radiation, weather, salt water and chlorine
- Excellent adhesion on many surfaces
- Rapid hardening
- Available in white, black, grey and clear
- Temperature-resistant from -40°C to +100°C (+130°C possible for short periods of 2-3 hours - except clear)
- Processing temperature +5°C to +40°C
- Resists some solvents
- Polymerize even in thicker layers
- Low shrinkage
- Very suitable for natural stones

Areas of application:

Gluing metals, wood and plastics together and to each other in container construction, metalworking, apparatus engineering, air conditioning, yacht/boatbuilding, bodywork and vehicle construction, elastic sealing of grooves and seams in areas where silicone cannot be used (Silicone contamination when painting)

MS polymer is available in white, black, gray and transparent.

MS POLYMER white in the tube with 120 g.



MS polymer ISEGA certificate.  
Certificate of conformity  
38703 U 14





# MD MS POLYMER HT

## HIGH TEMPERATURE MS POLYMER

- Isocyanate and silicone-free
- Can be painted over or coated
- Permanently elastic
- Applicable wet-on-wet
- Resistant to UV radiation, weather, salt water and chlorine
- Excellent adhesion on many surfaces
- Rapid hardening
- Available in white, black, grey and clear
- Temperature-resistant from -40°C to +100°C (+130°C possible for short periods of 2-3 hours)
- Processing temperature +5°C to +40°C
- Ideal for powder coating
- Low shrinkage

### Application areas:

Tension-free structural bonding/stainless steel constructions. Bonding of metals, sheet metal working, apparatus construction, air conditioning, bodywork, and vehicle construction. High temperature resistance.

MS POLYMER HT is available in white, black and gray.

# MD MS 2K POLYMER

MD MS 2K Polymer is a high-quality MS Polymer-based adhesive.

Resistant to UV, weather, water, damp and chlorine. MD MS 2K Polymer adheres extremely well to many surfaces in most cases without primer.

Its temperature resistance range is between -40°C and +100°C. Shore A Hardness 40 DIN 53505.

Complete hardening, gray after one hour, black after four hours – conventional MS Polymer (3 mm) in 24 hours. Curing time handling after 15 minutes

- Rapid hardening due to 2K system
- Hardening without humidity even with large surfaces
- Isocyanate and silicone-free
- Can be painted over or coated
- Permanently elastic
- Applicable wet-on-wet

MS 2K POLYMER 300 g and 500 g cartridges available in black and gray.



**NEW!**  
2K MS Polymer gray in  
35 g double syringe and  
65 g double cartridge



## Overview technical data

Technical data		MS POLYMER	MS POLYMER transparent	MS 2K POLYMER	MS WINDSCREEN ADHESIVE
Basis		MS-Hybrid	MS-Hybrid	MS-Hybrid	MS-Hybrid
Mixing ratio				2 componets 1 : 1	
Consistency		like pasty	like pasty	like pasty	like pasty
Working temperature	°C	+5 to +30	+5 to +30	+5 to +40	+5 to +35
Processing time	min.	10	10	black 30 gray 10	10
Stability under load	mm	1,4	1	black 1,37 gray 1,4 Complete hardening: black 4 hour gray 1 hour	1,4
Density (DIN 53479)	g/ml	3 mm/24h	3 mm/24h	4 mm/24h	3 mm/24h
Hardening time	h	-40 to +100	-40 to +100	-40 to +90	-40 to +90
Temperature resistance	C°	+ 130			
Up to	C°	10 -15	10 - 15	black 35 gray 15	10 - 15
Skin formation (23°C 55% RH)	min.	60	38	40	57
Shore hardness A (DIN 53505)		25	25	25	25
Maximum joint width	mm	300	250	550	180
Breaking strain (DIN 53504)	%	2,2	2,2	1,5	1,7
Tensile strength (DIN 53504)	MPa	12	12	300 g - 9, 500 g - 12	12
Shelf life	months				

# SEAM

product	article number	content	unit	packaging
MD MS POLYMER, transparent	MMS.K290-T	300 g	20	cartridge
MD MS POLYMER, white	MMS.K290-W	440 g	20	cartridge
MD MS POLYMER, white	MMS.W.T80	120 g	10	tube
MD MS POLYMER, gray	MMS.K290	440 g	20	cartridge
MD MS POLYMER, black	MMS.K290-S	440 g	20	cartridge
MD MS 2K POLYMER, gray	MMS.2K.G	300 g	12	Peeler cartridge
MD MS 2K POLYMER, gray	MMS.2K.G.S400	500 g	6	double cartridge
MD MS 2K POLYMER, gray	MMS.2K.G.S25	35 g	14	double syringe
MD MS 2K POLYMER, gray	MMS.2K.G.S50	65 g	12	double cartridge
MD MS 2K POLYMER, black	MMS.2K.S.S300	300 g	12	Peeler cartridge
MD MS 2K POLYMER, black	MMS.2K.S.S400	500 g	6	double cartridge
MD MS POLYMER sprayable	MMS.G.S450	450 g	12	cartridge
MD MOUNTING ADHESIVE	MMK.W.K290	450 g	12	cartridge
MD MULTI FIX	MMF.K310	470 g	20	cartridge
Accessories:				
Cartridge opener, black	140750			
Cartridge opener, blue	140894			





# MD MK 3000 Mounting adhesive

Mounting adhesive with immediate initial adhesion

MD MK 3000 is the new generation of mounting adhesives and has a very strong initial bonding. Bonding of heavy parts in vertical positions and ceiling mounting is possible. Unlike with conventional adhesives it is also possible to bond heavy items such as stones, wood, tiles and metals to walls and ceilings with MD MK 3000 without sagging and sliding off.

- Immediate initial bonding
- Odourless
- Resistant to weather, UV radiation, water, chlorine etc.
- Quick, simple and cost-effective bonding of materials
- Isocyanate and silicone-free
- Can be painted over or coated
- Permanently elastic and universally applicable

Areas of application:

Universal adhesive for bonding various building materials such as: (natural) stone, concrete, mirrors, glass, plasterboard, polycarbonate, PS, PU, PVC, polyester, plastics, email, ceramic, copper, lead, zinc, aluminium, metals, R.V.S., wood etc. MD MK 3000 is free of isocyanates, phthalat, solvents and silicone. Extreme high initial grab to bond heavy building materials without the use of Clamps and/or tape. MD MK 3000 for inside and outside use in building and industry constructions.

Technical data	MD MK 3000
Basis	Modified MS polymers
Consistency	thixotropic
Color	white
Hardening speed	3 / 24
Skimming time (23°C 55% RH)	10-15
Density kg/m <sup>3</sup>	1569
Working temperature	+5 to +40
Tensile shear strength (DIN 53504) MPa (N/mm <sup>2</sup> )	2,18
Temperature resistance from (after hardening)	-40
Temperature resistance to (after hardening)	+100
Short-term temperature resistance (2 to 3 hours)	+120
Shore A hardness DIN 53505	58
E module at 100% strain	1,39
Breaking strain (DIN 53504)	335
Shelf life (+5 to +25°C)	12

## MD MK MULTI FIX

Construction adhesive

- Solvent-free
- Quick reaction time
- For different applications
- Excellent bonding strength
- Achieved at wood/wood glueing according to EN 204 strain group D4
- Tested and approved

Technical data	MD MULTI FIX
Basis	Polyurethane
Skimming time (at +20°C/50% RF)	Open dry time: 5 min. Open wet time: 2 min.
Tying at +20°C and 150-200g/m <sup>2</sup> order quantity	Initial Strength: about 15 min. Ready for use: approx 24 hours at 2.5-mm bead
Temperature resistance	-30°C to +110°C
Color	beige
Self life	12 months

MK 3000 mounting adhesives with ISEGA certificate. Certificate of conformity 40681 U 15



# MD FLEX PU

## HIGH-QUALITY ADHESIVE AND SEALANT

MD FLEX-PU is a high-quality one-component adhesive and sealant for universal use. MD FLEX-PU remains elastic with high stability and can thus compensate for dynamic loads such as impacts and vibration.

- Silicone-free
- Can be painted over or coated
- Permanently elastic and universally applicable
- Applicable wet-on-wet
- Replaces conventional fixing methods - screws, rivets or welding
- Reliably seals seams
- Resistant to weather, UV radiation, seawater etc.
- Has a Shore hardness of 50 and therefore extremely good inner stability
- Odourless hardening

### Areas of application:

Bonding of metals, wood and plastics together and to each other in container construction, metalworking, apparatus construction, air conditioning, yacht/boatbuilding, bodywork and vehicle and window construction. Elastic sealing of joints and seams even in areas where silicone cannot be used (silicone contamination when painting). Available in gray, black and white.

Technical data	MD FLEX PU
Basis	Polyurethane
Consistence	pasty
Application temperature	+5°C to +30°C
Flow ISO 7390	<2 mm
Shrinkage ISO 10563	10 %
Density	1,18 g/ml
Tack free time (23°C/50% RH)	ca. 60 minutes
Curing Speed (23°C/50% RH)	4 mm/24h
Frost resistant till -15°C during transport:	yes
Shelf life between +5°C and +25°C	12 months
Paintable after curing	yes
Joint movement capability	±25 %
Temperature resistance after curing	-40°C to +90°C
Mechanical properties 2 mm film	
Shore-A Hardness A 3s DIN 53505	50
100% Modulus DIN 53504	0,6 mPa.s (N/mm <sup>2</sup> )
Elongation at break DIN 53504	>400 %



product	article number	content	unit	packaging
MD FLEX PU, black	MPU.S.K310	360 g	12	cartridge
MD FLEX PU, gray	MPU.G.K310	360 g	12	cartridge
MD FLEX PU, white	MPU.W.K310	360 g	12	cartridge
MD LIQUID BLOCK	MLB.G.D1	1,2 kg	10	tin
	MLB.G.E7	7 kg	5	bucket
	MLB.G.E14	14 kg	1	bucket
	MLB.G.K440	440 g	12	cartridge



# MD LIQUID BLOCK

## UNIVERSAL SEALANT

One-component, solvent-free, water-tight seal for horizontal and vertical surfaces

- Ready to use (one-component, no mixing required)
- Low viscosity product
- Solvent-free
- Isocyanate free
- Contains no Dibutyltin particles
- Excellent workability
- Water vapour permeable
- Temperature resistant from -40 ° C to +90 ° C
- Excellent adhesion to many substrates such as concrete, wood, ceramic, metal and much more, also without a primer
- Adheres to old and wet surfaces
- Good gap bridging
- Outstanding resistance to chemicals
- Good UV- and weather resistance
- Can be painted over
- Cures at room temperature
- Easy to work at - 5 ° C to + 40 ° C
- Short curing times
- No subsequent surface stickiness

MD LIQUID BLOCK is a universal seal for the most diverse areas, such as roofs, walls, wet cells. For vehicles as a complement to underbody protection and as a spreadable seam sealant. The manufacture of waterproofing for roof lights, skylights, gutters, pipe junctions, wall connections, chimney connections, outdoor ventilation etc. waterproofing balconies and terraces under tiles and coverings is easily possible. Waterproofing of cracks and fractures in masonry. MD LIQUID BLOCK suitable for substrates such as Styrofoam, plastics, concrete, wood, stone, metal, sanded roofing felts. MD LIQUID BLOCK provides a crack-bridge of at least 10 mm, it is UV resistant and not sensitive to rain and spray water (even during curing).

## Processing:

The surfaces must be firm, sound and free of contaminant matter (dust, oil, dirt etc.). Remove all residues of previous coatings thoroughly. MD LIQUID BLOCK has excellent adhesion to many construction materials such as concrete, glass, plaster, ceramics, tiles, wood, and various metals such as aluminium, steel, zinc and copper. Does not discolour metals, even those that are not painted. Bitumen can cause discolouration. Please always carry out preliminary tests! MD LIQUID BLOCK can also be used without primer on damp surfaces, however, not in standing water. MD LIQUID BLOCK can be used directly from the container, only stirring is required prior to application. It can be applied with a roller or brush/wide paint brush to a thickness of 2 coats of 1 mm. After drying, a layer thickness of about 2 mm should have been achieved. Apply the second layer after the first layer if completely dry (about 3 hours at 23 ° C and 50% relative humidity). After 12 hours (at 23 ° C and 50% relative humidity) the treated area is completely dry and downstream activities can be resumed. Temperature variations and / or changes in humidity can cause delayed curing. Use approx. 1.4 to 2.0 kg/m<sup>2</sup>. Connection and expansion joints must be properly prepared in order to achieve optimal results. Professionals Backfill material is unavoidable here (for example, for extrusion foamed polyethylene). For optimum elasticity of the sealant over the joints go to 2: 1 or max. 1: 1 width / depth ratio of the joint (minimum joint width 6 mm, maximum 20 mm).



# MD CA-STAR 2K

2K adhesive cyanoacrylate

Best adhesion properties on many different materials: metal, many plastics, such as PVC, ABS, PC, PBT, rubber, porous/absorbent materials such as wood, paper, cardboard, leather and textiles.

Mixing ratio: 4:1  
 Processing time: approx. 3 minutes, temperature-dependent  
 Temperature resistance: -20°C to +80°C, short term up to +120°C

- Thixotropic
- Drip free
- Extremely impact resistant
- Mechanical editable
- Gap fill up to 6 mm
- Applications overhead and in vertical locations
- Good chemical resistance
- Low blooming
- Transparent bonding of PMMA

Application:

The surfaces have to be clean, dry and free of grease. To assemble the double injection to introduce the first piston then remove the cap and attach the static mixer. Discard the first few centimeters of the material. Wear MD CA-STAR 2K on one of the two surfaces and assemble the two parts within 1 minute. After applying the MD CA-STAR 2K are approximately 5-60 seconds for positioning (depending on material) available. The final strength is reached after 24 hours. Keep the syringe in a cool, dry place. Shelf life: 12 months.

## Bonding and repairing - super fast -

The MD CA-STAR 2K can also be processed without mixing nozzle.

# MD CA-STAR 2K met

2K adhesive cyanoacrylate

MD CA-STAR 2K met - especially for the metal processing. Best adhesion properties on many different materials: metals, many plastics, steel, aluminium, stainless steel, rubber and porous/absorbent materials.

Mixing ratio: 4:1  
 Processing time: approx. 35 minutes  
 Temperature resistance: -20°C to +80°C, short term up to +120°C

- Thixotropic
- Drip free
- Extremely impact resistant
- Mechanical editable
- Gap fill up to 6 mm
- Applications overhead and in vertical locations
- Good chemical resistance
- Color: gray

The MD CA-STAR 2K met has achieved a longer pot life, (about 35 minutes) but still has a quick hand strength



product	article number	content	unit	packaging
MD CA-STAR 2K	MGL.STAR.S10	10 g	10	double syringe
MD CA-STAR 2K met	MGL.STAR.M.S10	10 g	10	double syringe



# MD INSTANT ADHESIVE

CA adhesives by MARSTON-DOMSEL are especially suitable for all kinds of bonding and compounds of metals with rubber, plastics and wood. They are particularly well suited for porous materials. They can bond wood, ceramics, leather, cork and plastics depending on the specification.

There is no adhesive, which can bond everything. Specific adhesives are necessary for various materials, which are matched with them as regards their structural composition and in their viscosity. MD GLUE instant adhesive by MARSTON-DOMSEL is supplied in practical bottles with droppers and is available in various versions for all kinds of materials.

- Economical in use
- Precise application possible
- High impact resistance
- Extremely high tensile strength
- High temperature stability
- Hand-tight in a few seconds
- Silicone-free

## Areas of application:

The electrical and electronics industries, engineering, metalworking, automotive construction, model construction, furniture industry, plastics processing, dentistry, fingernail bonding, rubber industry, lighting industry etc.

## Use:



The parts to be glued have to be clean and free from oil and grease. Apply the instant adhesive thinly on one side and press the parts together. It will become dry to the touch within a few seconds depending on the type and final hardening will occur after 24 hours. Our activator no. 9 can be used to accelerate the hardening process. For materials such as PP, PE, Teflon® or silicone the parts must be pre-treated with primer no. 7.



product	property   application	base	viscosity 20°C mPa.s		
MGL.101.4062	For extremely rapid instant bonding of smooth plastic or rubber surfaces. Subsequent adjustment is no longer possible. Thin fluid with a capillary action.	Ethyl Cyanacrylate	2 - 5	low viscosity	
MGL.111.495	 For high-strength bonding of metals and plastic combinations. Universally applicable.	Ethyl Cyanacrylate	35 - 70	low viscosity	
MGL.150.424	 For universal application with a wide variety of materials.	Ethyl Cyanacrylate	50 - 100	medium viscosity	
MGL.200.435	For bonding porous surfaces. Especially suitable for wood, rubber, ceramics, cork etc.	Ethyl Cyanacrylate	200 - 350	medium viscosity	
MGL.300.431	 For bonding highly porous and uneven surfaces. Especially suitable for wood, leather etc.	Ethyl Cyanacrylate	1.200 - 1.500	high viscosity	
MGL.310.415	For bonding metals, metal/rubber and metal/plastic combinations. Especially suitable for slightly uneven metal parts.	Methyl Cyanacrylate	1.200 - 1.700	high viscosity	
MGL.405	 Six times more impact resistance and ten times more peeling resistance than a conventional CA adhesive. Very high tensile shearing strength (240 kg per square centimetres with steel/steel). Temperature resistance up to +135 °C (with this high load the adhesive still possesses tensile shearing strength of 60 kg/cm <sup>2</sup> with steel), greater waterproofness, hard to the touch in just 45 seconds (an extraordinary figure for a CA adhesive with a viscosity of approx. 3000 mPa.s)	Ethyl Cyanacrylate	2.500 - 3.000	high viscosity	
MGL.501.408	For the bonding of rubber, plastic, steel and metals. Capillarity.	Ethyl Cyanacrylate	5 - 15	low viscosity	
MGL.601.460	 Universally applicable.	Ethyl Cyanacrylate	40 - 80	medium viscosity	
MGL.701.403	For bonding highly porous and uneven surfaces. Especially suitable for wood, leather etc. Gap-filling.	Ethyl Cyanacrylate	1.200 - 1.500	high viscosity	
MGL.BS.406	 For bonding rubber, plastic, steel, metals and EPDM. Bonds quickly.	Ethyl Cyanacrylate	3 - 10	low viscosity	
MGL.BS100.401	For bonding rubber (EPDM), plastics, steel and metals. Sticks within 1 - 3 seconds.	Ethyl Cyanacrylate	100	medium viscosity	
MGL.BS-SP	For bonding rubber, plastic, steel and other metals.	Ethyl Cyanacrylate	15 - 25	low viscosity	
MGL.EL.4850	Stay flexible! Bendable to 180°, for rubber and rubber-plastic combinations. Particularly suitable for O-rings and rubber components which are subjected to continual movements.	Ethyl Cyanacrylate	90 - 120	medium viscosity	
MGL.FL.403	For transparent and translucent plastics. The bonded location leaves no white edge and does not effloresce.	Ethyl Cyanacrylate	90 - 120	medium viscosity	



gap-filling / mm	curing time handling sec.	temperatur resistance °C	release / marking free	article No.	content	unit	packa- ging
0,05	3 - 10	-50 to +80		MGL.101.F10 MGL.101.F20 MGL.101.F50 MGL.101.F500	10 g 20 g 50 g 500 g	25 25 20 1	bottle
0,07	5 - 15	-50 to +80	NSF Listed P1 (Reg. No. 142940)	MGL.111.TS4 MGL.111.PT5 MGL.111.F10 MGL.111.F20 MGL.111.F50 MGL.111.F500	4 g 5 g 10 g 20 g 50 g 500 g	12 25 25 25 20 1	tube cartridge bottle bottle bottle bottle
0,10	8 - 20	-60 to +80	NSF Listed P1 (Reg. No. 150265)	MGL.150.PT5 MGL.150.F10 MGL.150.F10-BK MGL.150.F20 MGL.150.F50 MGL.150.F500	5 g 10 g 10 g 20 g 50 g 500 g	25 25 10 25 20 1	cartridge bottle bottle/ blister card bottle bottle bottle
0,15	10 - 20	-50 to +80		MGL.200.F10 MGL.200.F20 MGL.200.F50 MGL.200.F500	10 g 20 g 50 g 500 g	25 25 20 1	bottle
0,20	10 - 30	-50 to +80	NSF Listed P1 (Reg. No. 150268)	MGL.300.F10 MGL.300.F20 MGL.300.F50 MGL.300.F500	10 g 20 g 50 g 500 g	25 25 20 1	bottle
0,30	10 - 30	-60 to +80		MGL.310.F20	20 g	25	bottle
0,15	20 - 50	-50 to +135	NSF Listed P1 (Reg. No. 150267)	MGL.405.F20 MGL.405.F100 MGL.405.F500	20 g 100 g 500 g	12 10 1	bottle
0,05	5 - 90	-50 to +70		MGL.501.F20 MGL.501.F50	20 g 50 g	25 20	bottle
0,10	10 - 120	-50 to +70	Without hazard symbols and risk- and safety phrases.	MGL.601.F20 MGL.601.F50	20 g 50 g	25 20	bottle
0,70	10 - 126	-50 to +70		MGL.701.F20 MGL.701.F50	20 g 50 g	25 20	bottle
0,05	2 - 10	-50 to +80	NSF Listed P1 (Reg. No. 150266)	MGL.BS.F10 MGL.BS.F20 MGL.BS.F50 MGL.BS.F500	10 g 20 g 50 g 500 g	25 25 20 1	bottle
0,07	2 - 10	-60 to +80		MGL.BS1.F10 MGL.BS1.F20 MGL.BS1.F50 MGL.BS1.F500	10 g 20 g 50 g 500 g	25 25 20 1	bottle
0,05	2 - 10	-50 to +80		MGL.BS-SP.F10 MGL.BS-SP.F20 MGL.BS-SP.F50	10 g 20 g 50 g	25 25 20	bottle
0,05	3 - 10	-60 to +80		MGL.EL.F20 MGL.EL.F50	20 g 50 g	25 20	bottle
0,07	5 - 15	-50 to +80		MGL.FL.F20 MGL.FL.F50	20 g 50 g	25 20	bottle

product	property   application	base	viscosity 20°C mPa.s	
MGL.GA.460	Odourless CA adhesive. Suitable for polystyrene, acrylic glass and transparent materials. Does not effloresce.	Ethyl Cyanacrylate	30 - 50	low viscosity
MGL.M.493	Methyl-Base. For rapid bonding of smooth materials, metal/rubber and metal combinations.	Methyl Cyanacrylate	10 - 30	low viscosity
MGL.M100.496	Methyl-Base. For bonding metal and plastic combinations.	Methyl Cyanacrylat	90 - 120	medium viscosity
MGL.G.454	Special instant adhesive in thixotropic form. Does not run, can also be worked on vertical surfaces. Bonding of metal, wood and plastic.	Ethyl Cyanacrylate	50.000	thixotropic
MGL.SQ.414	For fast bonding of plastic and rubber.	Ethyl Cyanacrylate	90 - 120	medium viscosity
MGL.ST	For bonding of different material compounds (metal, rubber, wood, cardboard, ceramics as well as most plastics) and among each other.	Methoxyethyl Cyanacrylate	90 - 120	medium viscosity
MGL.SW4.480	Black impact-resistant instant adhesive. For bonding rubber and metals.	Ethyl Cyanacrylate	500 - 1.000	medium viscosity
MGL.SW15	Black impact-resistant instant adhesive. For bonding rubber and metals. High temperature resistance up to 120°C. Withstands vibration.	Ethyl Cyanacrylate	1.500	high viscosity
MGL.X1	Odorless No blooming Remains flexible High adhesion Non hazardous 	 ISEGA certificate 40680 U 15	40 - 60	low viscosity
MGL.X2			120 - 250	medium viscosity
MGL.X3			1.200 - 1.500	high viscosity

# ADHESIVES



MGL.405 in 100g and 20g bottle

MD GLUE without risk- and safety phrases.  
MGL.501, MGL.601, MGL.701

**NEW!**  
MGL.111 in 4 g  
Smart Tube



gap-filling / mm	curing time handling sec.	temperatur resistance °C	release / marking free	article No.	content	unit	packaging
0,03	5 - 20	-60 to +80		MGL.GA.F20 MGL.GA.F50	20 g 50 g	25 20	bottle
0,05	20 - 70	-50 to +80		MGL.M.F20 MGL.M.F50	20 g 50 g	25 20	bottle
0,10	5 - 15	-60 to +80		MGL.M1.F20 MGL.M1.F50	20 g 50 g	25 20	bottle
0,50	5 - 60	-50 to +80		MGL.G.T3 MGL.G.T20	3 g 20 g	12 12	tube
0,10	3 - 30	-55 to +80		MGL.SO.F10 MGL.SO.F20 MGL.SO.F50 MGL.SO.F500	10 g 20 g 50 g 500 g	25 25 20 1	bottle
0,10	10 - 120	-50 to +80		MGL.ST.F20 MGL.ST.F500	20 g 500 g	25 1	bottle
0,10	5 - 40	-50 to +120		MGL.SW4.F20 MGL.SW4.F50	20 g 50 g	25 20	bottle
0,15	10 - 30	-60 to +100		MGL.SW15.F20 MGL.SW15.F50	20 g 50 g	25 20	bottle
0,10	5 - 90	-50 to +80	NSF Listed P1 (Reg. No. 151975)	MGL.X1.ST12 MGL.X1.F25	12 g 25 g	18 12	Dosing pen Dosing bottle
0,10	10 - 120	-50 to +80	NSF Listed P1 (Reg. No. 151976)	MGL.X2.ST12 MGL.X2.F25	12 g 25 g	18 12	Dosing pen Dosing bottle
0,30	10 - 120	-50 to +80	NSF Listed P1 (Reg. No. 151977)	MGL.X3.ST12 MGL.X3.F25	12 g 25 g	18 12	Dosing pen Dosing bottle

The „Black“ MGL.SW4 and MGL.SW15

MD GEL

Available in the tube 3 g and 20 g tube



# MD GLUE XTREME

The new generation of cyanoacrylate!

- No blooming
- Odorless
- Non hazardous
- Remains flexible
- High temperature resistance
- No interference with electronic components
- High adhesion
- Top dielectric strength
- Good moisture resistance

**XTREME 1**  
low viscosity

**XTREME 2**  
medium viscosity

**XTREME 3**  
high viscosity



For our new line of CA adhesive, we offer innovative metering options. Bottle with base 25 g or 12 g of the practical metering.

- Avoids dripping
- Needle valve
- No clogging of the nozzle
- Easy application of the adhesive
- Precise dosing





# MD PREMIUM GLUE

The new MD PREMIUM GLUE is the result of our continual advancements in the field of cyanoacrylate adhesives. With our three new types of MD PREMIUM GLUE, we have expanded the wide range of rapid adhesives and thus the diverse areas of application.

Among other things, MOISTURE RESISTANT is moisture-resistant. Compared with a standard CA adhesive, it features excellent media resistance.

DUPLEX is characterised by the two different ways of curing – through UV light or humidity. Thus, even non-transparent materials can be transparently bonded free of errors. Excess adhesive can be hardened in 1–2 s. It can also be used as a casting mass.

HEAT is a high-temperature adhesive that can be used in all areas in which high temperatures are required. In this temperature range (up to 150°C), permanently achieving a firm bond is a novelty.

**MOISTURE RESISTANT**  
low viscosity

**DUPLEX**  
medium viscosity

**HEAT**  
medium viscosity

PREMIUM GLUE	MD GLUE MOISTURE RESISTANT	MD GLUE DUPLEX	MD GLUE HEAT
Technology	Ethyl cyano	Cyanoacrylates, UV, light	Cyanoacrylates
Chemical type		Alkoxyethyl cyanoacrylate with photoinitiator	Methoxyethyl cyanoacrylate
Colour uncured	transparent	transparent, yellow liquid	transparent
Components		One component – requires no mixing	One component – requires no mixing
Viscosity	low viscosity	medium viscosity	medium viscosity
Special feature	moisture resistant	Cured by UV light or humidity	Permanent temperature resistance up to 150°C
Article number	MGL.PM.F20 bottle 20 g unit 12	MGL.PD.F20 bottle 20 g unit 12	MGL.PH.F20 bottle 20 g unit 12



# Special products for MD GLUE

## MD ACTIVATOR NO. 9 for CA-Adhesive

Cleans and degreases parts and accelerates the hardening of CA adhesives. Bonds within 1 - 4 seconds depending on the CA adhesive as well as the gap between the parts and the room temperature.

## MD HARDENING ACCELERANT

Marston-Domsel's hardening accelerant ensures even faster hardening of MD GLUE instant adhesive. Mainly use for instant adhesives with higher viscosities.

### Application:

Removes contamination and oil/grease from surfaces to be bonded using a product such as Marston Cleaner. Apply the activator for CA by spraying it on to one surface to be bonded. Apply adhesive to the other side and press the parts together immediately.

## MD REMOVER

Removes adhesives from hands, upholstery, plastics and many other materials (a material test is recommended before use).

### Areas of application:

The electrical and electronics industries, lighting industry, metalworking, automotive construction, model construction, furniture industry etc.

## MD FILLER

Special granulate. It permits the enlargement and stabilisation of small bonding surfaces. MD FILLER fills holes and tears, evens out surface irregularities, strengthens very small parts, becomes hard as stone and can be ground and painted over. The best and fastest reaction can be achieved with MD GLUE BS.

## MD PRIMER NO. 7

PP, PE, silicone and Teflon® cannot be bonded together without prior treatment. Bonding materials only with adhesive and without a primer achieves adherence but no firm bonding. The primer permits polyolefins (polyethylene, polypropylene), PTFE, silicones and other difficult to bond materials to be bonded together.

### Application:

Apply a thin layer of primer to the surfaces to be bonded and allow to dry for several seconds. Apply the adhesive and press the parts together. Bonds after 1-2 minutes. Final hardness is achieved after 24 hours.

product	article number	content	unit	packaging
MD ACTIVATOR CA	MAC.A9.Y150	150 ml	6	tin
MD HARDENING ACCELERANT	MAC.Y15	15 ml	15	glass bottle with spray head
MD REMOVER	MRM.F20 MRM.F500	20 ml 500 ml	25 1	bottle
MD FILLER	MGL.F.F20	20 g	25	bottle
MD PRIMER NO. 7	MAC.P7.Y15 MAC.P7.F15	15 ml 15 ml	25 25	glass bottle with spray head glass bottle with brush



# MD UV ADHESIVE

MD UV adhesives react via radiation by UV light. MD UV is cured within seconds. We achieve a clear, high-strength bonds like e.g. glass with metal. The technique of UV hardening offers the benefit of being able to freely choose the time of hardening and short hardening times permit a higher production speed. Specific viscosities are available for every type of application.

- Communication electronics
- Consumer electronics
- Automotive electronics
- Plastic and glass processing

article	viscosity mPa.s	temperature resistance
MD UV adhesive 20	1.200 - 2.000 medium viscosity	-40°C +120°C
MD UV adhesive 21	500 - 1.000 medium viscosity	-40°C +120°C
MD UV adhesive 22	2.500 - 5.000 high viscosity	-40°C +120°C
MD UV adhesive 23	50 - 100 low viscosity	-40°C +120°C

article number	content	unit	packaging
MUV.20.F50	50 g	10	bottle
MUV.20.F250	250 g	6	
MUV.21.F50	50 g	10	bottle
MUV.21.F250	250 g	6	
MUV.22.F50	50 g	10	bottle
MUV.22.F250	250 g	6	
MUV.23.F50	50 g	10	bottle
MUV.23.F250	250 g	6	





# MD UV-STAR UV repair adhesive

■ Bonding ■ Fixing ■ Densities ■ Repair ■ Backup ■ Fill ■ Seal ■ Modeling ■ Isolate

MD UV-STAR special adhesive combines high strength with absolute reliability and virtual invisibility for glass / plastic / metal / wood / stone. It is suitable for bonding glass jewellery, lead crystal glass and laminated safety glass (e.g. automotive glazing and rear view mirrors). Not suitable for aquariums. The adhesive hardens by UV light using the enclosed UV projector or by itself in direct sunlight.

### Bonding at the push of a button!

You choose at the push of a button:

When the adhesive reacts and bonds!

How quickly the adhesive reacts!

What the adhesive strength is!

How hard the adhesive is!

The elasticity of the bond!

### Instructions for use:

Adhesive surfaces have to be dry, dust and grease free. Surfaces should be roughened. To open, cut the point by 2 mm. Apply adhesive thinly and to one side. Push the parts to be bonded together align and correct. Thereafter fix together without pressure and light with the UV projector for 3-30 seconds. Use the UV-STAR UV projector or a commercially available UV lamp with an object distance of 1-10 mm. If possible leave the bond to rest undisturbed for a few minutes. 50% strength after 3 seconds, 90% strength after about 30 sec, final strength after 1-24 hours. The adhesive reacts to UV exposure even in daylight. Indoor and outdoor weather resistant use. Store the bottle upright in cool and dark surroundings. Cover dosing point during work breaks.

Technical data		ideal for		article number	content, packaging, unit
Initial hardening	< 3 sec.	Model building	Metals	MUV.SET.F3	3 g Set: bottle, Beamer, blister packaging unit 8
Hardening	< 30 sec.	Glass	Rubber		
Temperature solid at	max. -40°C to 120 °C	Wood	Plastics		
Shore hardness	max. 55	Acrylic	Insulation		
Tensile strength	max. 200 kg/cm <sup>2</sup>	Porcelain	Automotive glazing		
Strain	max. 100 %	Ceramics	Waterproofing		
Gap filling	max. 2 mm	Jewellery			
Viscosity 20°C	2.500 - 5.000 mPa.s				



## Find out more

### MD UV-STAR - Bonding at the push of a button!

1. You can use MD UV-STAR without hassle, without mixing and time pressure, to coat, seal, model or repair. You can apply, align, fix and if necessary remove any residue with ease. No problem.

2. MD UV-Star only reacts to form a solid plastic matrix once the button on the UV projector has been pushed. Specific or large areas exactly where and when you want. If required in only a few seconds.

### What is so special about MD UV-STAR?

1. You decide when and where by pressing a button, how quickly and how firmly UV-STAR reacts and hardens as an adhesive and repair resin.

2. Easy handling. Controlled hardening.

### How does MD UV-STAR work?

1. UV-STAR is a radiation-hardening liquid plastic originating from industrial and medical development.

2. UV reactive photo initiators react in a liquid plastic matrix to external UV exposure and determine the hardening reaction.

3. The intensity of UV radiation determines both hardness and elasticity as well as the reaction rate.

### What can MD UV-STAR be used for?

1. Applicable to virtually any materials e.g. glass, metal, plastic, stone, ceramic, wood, acrylic etc.

2. For bonding, filling, locking, waterproofing, sealing, insulating, modelling.

3. Fill and seal cracks in surfaces such as glass, vases, rubber products, metal containers etc.

4. Insulation, sealing and grouting of electrical components such as boards, low voltage components etc.

5. Remodelling of material defects - can be sanded, is drillable and paintable.

6. Fix, connect and secure during the entire model building process. Selectively within seconds and with the push of a button.

7. Glass and stone chip repairs for the automotive sector.

8. As a seam sealer in the textile and outdoor markets such as tent fabrics, hoses and rubber products.

9. As a 3-D modelling medium for arts and crafts such as crystal, glass creations, mosaics, miniature sculptures and jewellery making.

## Working Tips

1. Adhesive surfaces should be sound, rust- and corrosion-free and as free from paint and separating layers as possible.

2. Bond surfaces should exhibit a significant surface roughness. For this purpose, smooth surfaces should possibly be sanded (K80-180).

3. For optimal results bond surfaces should be dry, clean, dust and grease free. For this purpose isopropanol, acetone, thinner and soap / silicone-free non-greasy cleaners are suitable.

4. Adhesion should best be carried out so that the main surface is perpendicular to the bonding load (tensile load). Buckling, shearing and torsional forces in the adhesive joint should be avoided.

5. The minimum bond gap should be 0.05-0.15 mm. Large bond gaps or holes should be covered by layered application. Maximum layer thickness should not exceed 2 mm per layer.

6. The adhesive reacts within 1-3 seconds. Ideally, adhesive bonds should initially be fixed at points and then reworked thicker (without tension or pressure forces).

7. For a fast and complete hardening reaction the distance of the UV-LED to the adhesive surface should be as close as possible.

8. The adhesive reacts for up to 24 hours post hardening, due to UV radiation in ambient light as well as in daylight.

9. After hardening, the adhesive surface can be machined (drilling, sawing, grinding) be painted.

10. The adhesive reacts only in areas accessible to light. Excess material and adhesive contamination should be removed immediately with isopropanol / acetone such as nail polish remover.

11. Not suitable for glass with UV filter.



# MD ANAEROBIC SCREW RETENTION

The bolt retention adhesive glues, seals and secures threaded connections, bonded components, bearings and pipe connections easily, cleanly and permanently.

Screw retention replaces conventional fixing methods such as cotters, lock washers and discs. The screw retention secures screws, nuts and stud bolts against loosening due to vibrations and seals at the same time. MARSTON-DOMSEL systems are functionally reliable also under the toughest conditions.



**Application instructions:**

Treat threaded parts with MARSTON CLEANER before applying screw retention adhesive. Pre-treat the surfaces with MD ACTIVATOR NO. 11 when working at temperatures below 5°C. Remove cutting oil and washing lye residues with hot water. Use MD GLUE BS or similar for plastic parts.

**Areas of application:**

Motor racing, engine construction, automotive and motorcycle industries, tractor construction, electrical industry, turbines and nuclear power stations, engineering, lighting industry, transmission construction, the foodstuffs industry, gas and waterworks, pump construction, sanitary applications etc.



product	color	max. thread	viscosity +20°C mPa.s	gap-filling/ mm	curing time handling min.	curing time functional hour	temperature resistance°C
<b>MSS.520.290</b>	green	M6	70 - 90	0,07	10 - 20	1 - 3	-55 to +150
<b>MSS.541.241</b>	blue	M12	100 - 150	0,10	10 - 20	1 - 3	-55 to +150
<b>MSS.550.222</b>	purpur	M24	900 - 1.100	0,20	15 - 30	1 - 3	-55 to +150
<b>MSS.581.242</b>	blue	M24	900 - 1.100	0,20	10 - 20	1 - 3	-55 to +150
<b>MSS.585.243</b> 	dark blue	M36	2.000 - 7.500	0,25	10 - 20	1 - 3	-55 to +150
<b>MSS.587.245</b>	blue	M80	6.000 - 20.000	0,30	15 - 30	1 - 3	-55 to +150
<b>MSS.641.270/1</b>	green	M20	400 - 700	0,15	10 - 20	1 - 3	-55 to +150
<b>MSS.642.272</b> 	red	M36	8.000 - 15.000	0,30	20 - 40	3 - 6	-55 to +230
<b>MSS.681.262</b>	red	M36	3.000 - 6.000	0,25	10 - 15	1 - 3	-55 to +150
<b>MSS.5850K.2400</b>	dark blue	M36	1.700 - 9.000	0,25	30 - 50	6 - 12	-55 to +150
<b>MSS.6410K.2700</b>	green	M20	500	0,15	20 - 40	6 - 12	-55 to +150



- Vibration-resistant
- One-component – clean and easy to apply
- Suitable for all thread types and shapes
- Seals inside the thread immediate
- High strengths
- High temperature resistance (up to 230°C)
- Time and cost savings
- Very short hardening times
- High functional reliability
- DVGW approval



Pump dispensers are available in 15 g and 50 g sizes as well as packaging units 25, 50 g and packaging unit 20. The ending of the article numbers are P15 and P50 (e.g. MSS).585.P15.

density (25°C) g/cm <sup>3</sup>	breakaway (DIN EN ISO 10964)(Nm)	shear strength (DIN 54452) (N/mm <sup>2</sup> )	comment	article no. container sizes F=bottle, T= tube	unit	
1,10	15 - 25	8 - 12	high strength - low viscosity	MSS.520.F10	10 g	20
				MSS.520.F50	50 g	10
				MSS.520.F250	250 g	6
1,05	10 - 15	8 - 12	low strength - low viscosity	MSS.541.F10	10 g	20
				MSS.541.F50	50 g	10
				MSS.541.F250	250 g	6
1,05	4 - 8	3 - 5	low strength - low viscosity	MSS.550.F10	10 g	20
				MSS.550.F50	50 g	10
				MSS.550.F250	250 g	6
1,05	14 - 18	8 - 12	medium strength - medium viscosity	MSS.581.F10	10 g	20
				MSS.581.F50	50 g	10
				MSS.581.F250	250 g	6
1,05	17 - 22	9 - 13	medium strength - high viscosity DIN-DVGW-NG-5146AU7052 according to DIN EN 751-1 Class H. Not permitted for use in the gas installation according to DVGW TRGI of 2008.	MSS.585.F10	10 g	20
				MSS.585.F50	50 g	10
				MSS.585.F250	250 g	6
1,04	10 - 15	8 - 12	high strength - high viscosity	MSS.587.T50	50 g	10
				MSS.587.T250	250 g	6
1,10	28 - 35	15 - 20	high strength - medium viscosity	MSS.641.F10	10 g	20
				MSS.641.F50	50 g	10
				MSS.641.F250	250 g	6
1,10	20 - 35	15 - 25	high viscosity - high strength DIN-DVGW-NG-5146AT7033 according to DIN EN 751-1 Class H. Not permitted for use in the gas installation according to DVGW TRGI of 2008.	MSS.642.F10	10 g	20
				MSS.642.F50	50 g	10
				MSS.642.F250	250 g	6
1,05	20 - 25	10 - 15	medium strength - high viscosity	MSS.681.F10	10 g	20
				MSS.681.F50	50 g	10
				MSS.681.F250	250 g	6
1,05	13 - 18	7 - 10	medium strength - high viscosity without risk- and safety phrases	MSS.5850K.F50	50 g	10
1,10	20 - 30	10 - 20	high strength - medium viscosity without risk- and safety phrases	MSS.6410K.F50	50 g	10



# MD ANAEROBIC BUSHING & BEARING RETENTION

Bearings | bushings | shafts | hubs

- Rapid hardening
- Resistant to many substances
- Very high strength even on slightly oily bonded parts
- Low viscosity with excellent capillary action
- Medium and high viscosity for bearings and bushings

Pretreat the surface with MD ACTIVATOR NO. 11 if working below 5°C. Clean surfaces with MARSTON CLEANER before applying the product. Remove cutting oil and washing lye residues with hot water.



product	color	max. thread	viscosity +20°C mPa.s	gap-filling/ mm	curing time handling min.	curing time functional hour	temperature resistance°C
<b>MBL.610.603</b>	green	M12	100 - 150	0,10	10	1 - 3	-55 to +150
<b>MBL.630.641</b>	yellow	M20	500 - 700	0,12	10 - 20	1 - 3	-55 to +150
<b>MBL.650.648</b>	green	M20	400 - 600	0,15	2 - 5	1 - 3	-55 to +175
<b>MBL.665.620</b>	green	M56	8.000 - 15.000	0,30	20 - 40	3 - 6	-55 to +230
<b>MBL.668.660</b>	silver	M56	500.000 - 900.000	0,30	15 - 30	3 - 6	-55 to +150
<b>MBL.690.638</b>	green	M36	1.500 - 2.500	0,20	2 - 5	1 - 3	-55 to +150



Pump dispenser are available in sizes 15 g and 50 g, unit 25, 50 g in unit 20. The extension of the Article numbers are P15 and P50, for example, MBL.610.P15..

density (25°C) g/cm <sup>3</sup>	breakaway (DIN EN ISO 10964)(Nm)	shear strength (DIN 54452) (N/mm <sup>2</sup> )	comment	article No. container sizes F=bottle, T= tube	unit
1,10	25 - 30	17 - 22	low viscosity - high strength heavy removable	MBL.610.F10 10 g	20
				MBL.610.F50 50 g	10
				MBL.610.F250 250 g	6
1,05	12 - 15	8 - 12	medium viscosity - medium strength removable	MBL.630.F10 10 g	20
				MBL.630.F50 50 g	10
				MBL.630.F250 250 g	6
1,10	30 - 35	20 - 30	medium viscosity - high strength heavy removable	MBL.650.F10 10 g	20
				MBL.650.F50 50 g	10
				MBL.650.F250 250 g	6
1,10	25 - 30	15 - 25	high viscosity - high strength heavy removable high temperature resistant	MBL.665.F10 10 g	20
				MBL.665.F50 50 g	10
				MBL.665.F250 250 g	6
1,10	35 - 40	25 - 30	high viscosity - high strength heavy removable	MBL.668.T50 50 g	20
				MBL.668.T100 100 g	10
				MBL.668.T250 250 g	6
1,10	30 - 40	25 - 30	high viscosity - high strength heavy removable	MBL.690.F10 10 g	20
				MBL.690.F50 50 g	10
				MBL.690.F250 250 g	6



# MD ANAEROBIC PIPE THREAD SEALANT

MARSTON-DOMSEL pipe thread seals with and without PTFE secure and seal threads against gas, water, hydrocarbons, oil, liquid gas and many chemicals.

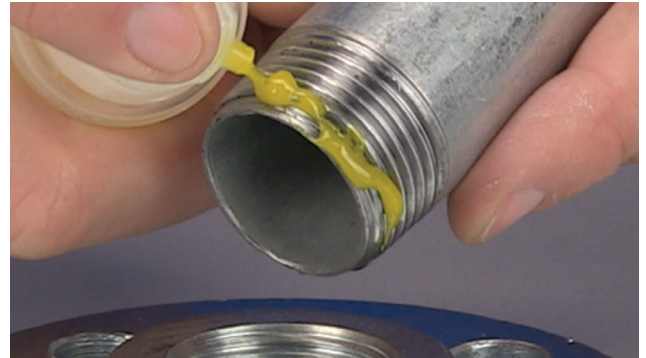
- Replaces hemp, Teflon® and also solid seals
- Parts can be aligned directly after assembly
- High-quality seal
- Additional protection against corrosion
- Temperature resistant from 150°C to 200°C
- DVGW approval

**Areas of application:**

The shipbuilding industry, pump construction, sanitary applications, tractor construction, motor and electrical industries, turbines and nuclear power stations, engineering and gear manufacture, foodstuffs industry, mining, gas, water and electricity works etc.

**Instruction for use:**





With 670, 675 and 678, pretreat the surface with MD ACTIVATOR NO. 11 when working below 5°C. All parts have to be clean, dry and dust-free - clean them beforehand with MARSTON CLEANER.



product	color	max. thread	viscosity +25°C mPa.s	gap-filling/mm	curing time handling min.	curing time functional hour	temperature resistance °C	density (25°C), g/cm <sup>3</sup>
<b>MRG.666.620</b>	green	M56	3.000 - 5.000	0,25	20 - 40	1 - 3	-50 to +200	1,10
<b>MRG.670.542</b>	brown	M20	500 - 700	0,15	10 - 20	1 - 3	-55 to +150	1,10
<b>MRG.675.577</b>	yellow	M80	24.000 - 70.000	0,50	15 - 30	1 - 3	-55 to +150	1,05
<b>MRG.676.576</b>	blue	M56	15.000 - 25.000	0,25	5 - 45	1 - 4	-55 to +180	1,05
<b>MRG.678.511</b>	white	M80	60.000 - 90.000	0,30	20 - 40	1 - 3	-55 to +150	1,10
<b>MRG.6750K.5770</b>	yellow	M80	24.000 - 70.000	0,50	15 - 30	1 - 3	-55 to +150	1,05



Pump dispenser are available in sizes 15 g and 50 g, unit 25, 50 g also unit 20. The extension of the Article numbers are P15 and P50, for example, MRG.675.P15.

breakaway( DIN EN ISO 10964)(Nm)	shear strength (DIN 54452) (N/mm <sup>2</sup> )	constant class (DIN 30661)	comment	release	article No. container sizes F=bottle, T= tube	unit
28 - 36	15 - 25	3	high viscosity - high strength heavy removable DIN-DVGW-NG-5146AR7028 according to DIN EN 751-1 Class H. Not permitted for use in the gas installation according to DVGW TRGI of 2008.		MRG.666.F10 10 g MRG.666.F50 50 g MRG.666.F250 250 g	20 10 6
12 - 16	8 - 12	2	low viscosity - medium strength removable		MRG.670.F10 10 g MRG.670.F50 50 g MRG.670.F250 250 g	20 10 6
18 - 22	6 - 13	2	high viscosity - medium strength removable DIN-DVGW-NG-5146BU0369 according to DIN EN 751-1 Class H. Not permitted for use in the gas installation according to DVGW TRGI of 2008..		MRG.675.T50 50 g MRG.675.T250 250 g	10 6
8 - 12	4 - 6	1	high viscosity - medium strength For locking and sealing of screw threads against gas, water, Hydrocarbon, oil, gas-liquid and many chemicals. Replaces hemp, PTFE and hard seals.		MRG.676.T100 100 g	10
7 - 10	4 - 6	1	high viscosity - low strength easy removable DIN-DVGW-NG-5146BR0529 according to DIN EN 751-1 Class H. Not permitted for use in the gas installation according to DVGW TRGI of 2008..		MRG.678.T50 50 g MRG.678.T250 250 g	10 6
18 - 22	6 - 13	2	high viscosity - medium strength removable without risk- and safety phrases		MRG.6750K.T50 50 g MRG.6750K.T250 250 g	10 6

# MD ANAEROBIC SURFACE SEALANT

Solvent-free construction component

Surface sealant is suitable for the hardest operating conditions such as in transmission and engine housings, flange connections, bearing covers and different housing covers.

The surface sealant is a high-quality single-component sealant, which hardens and becomes hermetically sealed on contact with metal.

- The surface sealant hardens completely and thus has very high pressure resistance (up to 300 bar - depending on the material and size)
- The surface sealant replaces conventional solid seals and can be applied universally
- The surface sealant is supplied with different viscosities and fills gaps up to 0.5 mm
- Ideal for parts with complex shapes

Resistant to water, mineral oils, synthetic lubricants, fuels, organic solvents and refrigerants.

Areas of application:

The automotive industry, chemical and petrochemical industries, gas, water and electricity works, offshore oil platforms etc.

Instructions for use:

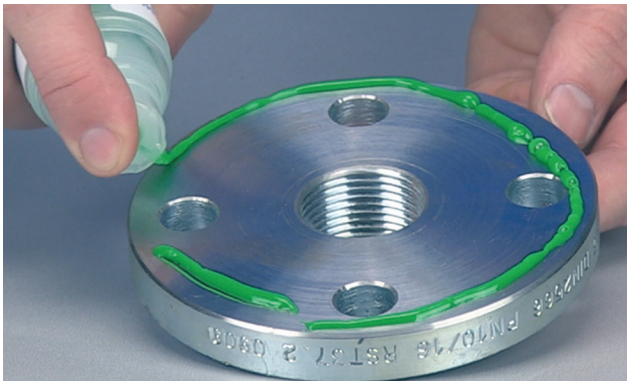
Clean the parts to be bonded with MARSTON CLEANER. Apply sufficient sealant and assemble. Immediate assembly is not necessary since the material only reacts when the parts are brought together. Anaerobic liquid plastics do not react with metal-plastic combinations; in such cases it is necessary to work with an activator. Different types with different hardnesses and viscosities permit precise matching to your application case and are decisive for the success of the seal. Fixture time is reached after approx. 5 to 10 minutes. Final hardness is achieved after 12 hours. Hardening can be significantly accelerated by the use of ACTIVATOR NO.11.



product	color	viscosity +25°C mPa.s	gap-filling/ mm	curing time handling min.	curing time functional hour	temperature resistance °C
<b>MFD.2000.573</b>	green	17.000 - 50.000	0,30	20 - 40	1 - 3	-55 to +150
<b>MFD.3000.518</b>	red	50.000 - 250.000	0,50	10 - 20	1 - 3	-55 to +150
<b>MFD.4000.574</b>	orange	30.000 - 100.000	0,50	15 - 30	1 - 3	-55 to +150
<b>MFD.5000.510</b>	red	70.000 - 300.000 thixotropic	0,50	15 - 30	3 - 6	-55 to +200

PROTE





Pump dispenser are available in sizes 15 g and 50 g, unit 25, 50 g in unit 20. The extension of the Article numbers are P15 and P50, for example, MFD.2.P15.

density (25°C), g/cm <sup>3</sup>	strain (Nm)	flash point °C	shear strength (DIN 54452) (N/mm <sup>2</sup> )	constant class (DIN 30661)	comment	article No. container sizes F=bottle, T= tube Z= concertina bottle	unit	
1,10	2 - 4	>100	4 - 6	1	high viscosity - medium strength	MFD.2.T50	50 g	10
						MFD.2.Z50	50 g	10
						MFD.2.T100	100 g	10
						MFD.2.T250	250 g	6
1,10	7 - 10	>100	8 - 13	2	high viscosity - medium strength	MFD.3.T50	50 g	10
						MFD.3.T100	100 g	10
						MFD.3.T250	250 g	6
1,10	5 - 8	>100	5 - 10	2	high viscosity - medium strength	MFD.4.T50	50 g	10
						MFD.4.Z50	50 g	10
						MFD.4.T100	100 g	10
						MFD.4.T250	250 g	6
1,05	6 - 8	>100	5 - 10	2	high viscosity - medium strength	MFD.5.T50	50 g	10
						MFD.5.T100	100 g	10
						MFD.5.T250	250 g	6

# CTION

# MD ANAEROBICS IN PUMP DISPENSER

Never blocked tubes again ... Never residue in bottles and tubes again ...  
The Marston pump dispenser makes it possible!

- Easy dispensing
- No dripping or subsequent seeping
- Highly viscose sealants are applied with ease and without problems
- Enables precise metered dispensing

You get all types of our anaerobic liquid plastics in the new in pump dispenser.

Screw retention, pipe thread sealant, bushing and bearing retention, surface sealing.

Available in 15 g and 50 g of dosing. The article numbers for the different pump dispenser are P15 or P50 instead of F10 and F50, e.g. MSS.585.P15 or MSS.585.P50.

Each display with 25 x 50 g or 15 g dispensers - clearly arranged and customer-friendly.  
50 g also available in the packaging unit 20 pieces.

Many products with DVGW approval!



Everyone is familiar with the problem of squeezing the residue out of the tube, of constant excess seeping and of permanently sticking tube caps – all this is now a thing of the past – with the new pump dispenser from Marston you can dispense quantities of even the most viscose liquids cleanly and with ease. Even high-precision metered dispensing in awkward areas is no longer a problem.

We would be delighted to advise you!



# MD ACTIVATOR ANAEROBE NO. 11

Ideal for anaerobic liquid plastics

Marston-Domssel's activator for anaerobic liquid plastics speeds up hardening even at low temperatures. Larger gaps can also be bonded.

- Economical in use
- Easy to handle
- Comes in a practical spray tin

MD ACTIVATOR NO. 11 should be used below 5°C (ambient temperature).

**Application:**

Apply anaerobic product to one side. Activator spray on the other side and assemble the parts. When soiled surfaces it may be necessary to repeat the treatment. For porous surfaces may require a second activation. Allow to evaporate the solvent. Stick no later than seven days after activation.

MD activator No. 11 accelerates the hardening of:

- MD screw retention
- MD bushing- and bearing retention
- MD pipe thread sealant
- MD surface sealant



Physical Properties			
Composition		organic	
Color		green	
Viscosity (20°C – mPa.s)		1 – 2	
Density (20°C – g/ml)		0,8	
Flashpoint (ISO 2592)		0°C	
Vapor pressure 25°C		50 mbar	
Toxicity		TLV 270 ppm	
Response to surface		24 hours	
Shelf life:		1 year	
MD ACTIVATOR NO. 11	Art.-No. MAC.A11.Y150	150 ml Spray can	unit 6

CTI ON



# MD MS WINDSCREEN ADHESIVE

Permanently elastic damp-hardening single-component sealant and adhesive for constructive connections, which require a high degree of stability.

The new MS Polymer technology (modified silane polymers) combines the advantages of different sealants and adhesives such as PUR, silicone, acrylate and butyl rubber in one product. Silicone and halogen-free. Environment friendly, contains no isocyanates and is solvent-free.

#### Properties:

- Outstanding bonding characteristics – even without primer – to metal, glass, plastics, paints, primers, wooden materials and mineral-based surfaces
- Remains elastic even within the temperature range of -40°C to +120°C after hardening
- Does not shrink, vibration-resistant, cross-links neutrally
- Odourless and fast-hardening
- Can be painted over immediately wet-on-wet with acrylate and dispersion varnishes
- UV and ageing-resistant

#### Application:

Gluing vehicle windcreens, gluing and sealing sunroof systems, constructional gluing in bodywork, container, wagon and vehicle construction, sealing weld seams, floor and connecting joints if necessary also on wet surfaces, gluing corner profiles (window construction) and floor structures, ventilation and air conditioning technology, apparatus engineering, plastics technology and structural and under-round engineering.

#### Instructions for use:

Surfaces must be clean, dry and grease-free (work with primer on chrome steel). Can be used with a manual or a compressed air gun. Smooth with a wet plastic trowel within 10 minutes as necessary. The application thickness depends on the nature of the materials to be bonded. Press on the opposing piece to be bonded within 10 minutes. The hardening time depends on the layer thickness, temperature and relative humidity.

## MD BLACK PRIMER

was developed as a black pre-treatment for glass, which has not been ceramically coated to offer UV protection. To be applied before the use of special adhesives for bonding (including PMMA and PC) in the automotive, bus, shipbuilding and rail industries.

#### Areas of application:

- Pre-treatment of glass substrates without chemical coating
- Repair of damaged coats of varnish on metals

product	article number	content	unit	packaging
MD MS- wind-screen adhesive	MSK.K290	420 g	12	cartridge
MD Black Primer	MAC.SP.Y38	38 ml	6	tin

Technical data	MD MS Windscreen adhesive
Consistency	pasty, workable like putty from manual or compressed air gun (at 2-5 bar), extremely good stability
Working temperature	5°C to 35°C
Temperature resistance	-40°C to +90°C, short term +120°C
Working life	< 15 minutes (20°C/50% RF)
Full hardening	approx 3 mm/24 Std. (DIN 50014)
Drive away time	2 hours
Change in weight	1% 14 d (DIN 50014)
Shore A hardness	approx. 57, sample thickness 6 mm after four weeks (DIN 53505)
Breaking strain	approx. 180% (DIN 53283)
Breaking resistance	approx. 2,7 MPa (DIN 53504)
Tensile strength	approx. 1,7 MPa (DIN 53504)
Tensile shear strength	approx. 2,5 MPa (DIN 53283)
Tear resistance	16 N/mm <sup>2</sup> (DIN 53515)
Shelf life	up to 12 months in its original packaging if kept cool and dry (at 18°C to 25°C)
Chemical resistance	
Good	water, seawater, aliphatic solvents, oils, greases, thinned mineral acids, lyes
Moderate	ester, cations, aromatic solvents
Bad	concentrated acids, chlorinated hydrocarbons

MS windscreen adhesive with TÜV Nr. 09-00781-CP-GBM



# MD MIX Epoxy resin repair kit

MD MIX repairs incorrectly drilled holes, cracks and broken threads on metal, wood and plastic.

- Fills cracks and holes
- Temperature resistant up to +180°C and up to +300°C for short periods
- For on-the-spot repairs

MD MIX is easy to use. The material is worked like modelling clay. MD MIX has an extremely high Shore hardness D of 80 (concrete 60). MD MIX can be worked mechanically.

## Working instructions:

The parts to be repaired have to be clean and free of oil and grease. Roughening increases the strength of the bond. Cut off the required quantity of MD MIX and knead it for approximately 2 minutes until an even color has been produced and the material becomes warm. Then apply MD MIX to the parts and mould it. Mechanical working can be done after approximately 20 minutes. Final hardening occurs after 24 hours. Do not work at outdoor temperatures below 5°C.


## Application examples:

Repairing incorrectly drilled boreholes, holes in pipes, cavities and all cracks in metal, wood and plastic. Mechanical working is possible after a short time. Parts can be ground, milled, bored and painted over.



	MD MIX METAL	MD MIX ALU	MD MIX WOOD	MD MIX COPPER	MD MIX WATER
Base	Epoxy resin Metal-filled	Epoxy resin Aluminium-filled	Epoxy resin Mineral-filled	Epoxy resin Copper-filled	Epoxy resin Ceramically filled
Color (mixed)	dark gray	aluminium	light beige	copper	white
Working life (min.) approx.	3 - 4	3 - 4	3 - 4	3 - 4	3 - 4
Curing time handling min. (temperature-dependent)	8 to 10	8 to 10	8 to 10	8 to 10	8 to 10
Final hardening h	24	24	24	24	24
Working temperature in °C	+10 to +30	+10 to +30	+10 to +30	+10 to +30	+10 to +30
Hardening temperature in °C	+6 to +30	+6 to +30	+6 to +30	+6 to +30	+6 to +30
Tensile shear strength (DIN 53283) N/mm <sup>2</sup>	4,5	4,5	5,5	7,0	6,0
Mixing ratio	1:1	1:1	1:1	1:1	1:1
Shore hardness D	87	87	80	82	82
Temperature range °C	-50 to +180 (short term +300)	-50 to +180 (short term +300)	-50 to +120 (short term +300)	-50 to +180 (short term +300)	-50 to +120 (short term +150)
Shrinkage %	0,05	0,05	0,05	0,05	0,05
Heat conductivity W/mK	0,60	0,65	0,30	0,70	0,50
Dielectric strength kv/mm	3,0	3,0	3,0	3,0	3,0
Bonding gap filling mm	15	15	15	15	15
Possible applications	For quick repairs of stripped threads, pumps, housings, tanks containers, hard plastic and stone.	For quick repairs of transmission housings, boat and professional engine-building.	For quick repairs of wood in furniture, gluing hinges, repairing boreholes, retaining screws. Remains slightly flexible.	For quick repairs of pipes and pipe elbows, hot and cold water pipes, copper guttering sheets, water tanks and flanges.	For quick repairs of sanitary facilities, swimming pools, radiators, glass, ceramics, stone and hard PVC.
Article number	MIX.M.56 MIX.M.56-BK MIX.M.115	MIX.A.56 MIX.A.115	MIX.H.56	MIX.K.56	MIX.W.56
Content	56 g / 115 g	56 g / 115 g	56 g	56 g	56 g
Unit	24 / 10 / 12	24 / 12	24	24	24

# Summary table of 2K products

adhesive gap	product	base / description	color	mixing ratio	viscosity/ property
to 10 mm	<b>MD MEGABOND 3000</b>	Base: Methacrylate Residually flexible bonding of many materials such stainless steel, aluminium, plastics.	dark gray	10 : 1	medium high stable
	<b>MD MEGABOND 3030 30 min.</b>	Base: Methacrylate Flexible bonding of stainless steel, aluminium and plastic (e.g. polycarbonate).	dark gray	10 : 1	medium high stable
to 5 mm	<b>MD MEGABOND 2000 5 min.</b> ISEGA Certificate 40682 U 15 	Base: Methacrylate Bonding of rigid materials such as steel, metal and plastic (e.g. GFK).	milky	1 : 1	medium high stable
	<b>MD MEGABOND 2000 black</b>	Base: Methacrylate Bonding of rigid materials such as steel, metal and plastic (e.g. GFK).	black	1 : 1	medium high stable
	<b>MD MEGABOND 2030</b>	Base: Methacrylate Bonding of rigid materials such as steel, metal and plastic (e.g. GFK).	milky	1 : 1	medium high stable
	<b>MD CLEARBOND</b>	Base: Methacrylate For glass-clear bonding of glass and plastics (PMMA).	transparent	1 : 1	medium flowable
	<b>MD PU SPEED 1 min.</b>	Base: PU Bonding of thermoplastics and duroplastics.	black / nature	1 : 1	medium high stable
	<b>MD PU SPEED 5 min.</b>	Base: PU Bonding of thermoplastics and duroplastics.	black / nature	1 : 1	medium high stable
	<b>MD MET</b>	Base: Epoxy resin For metal bonds for repairing aluminium, metal and cast parts.	gray	1 : 1	low flowable
to 2 mm	<b>MD POLY</b>	Base: Methacrylate Bonding of PP/PE. Without primer and in one work step.	white	10 : 1	medium high stable
	<b>MD POLY 1</b>	Base: Methacrylate Special adhesive for PP, PE, Teflon® and silicone, without primer.	amber / white	1 : 1	medium high stable
	<b>MD POX 5 Min.</b>	Base: Epoxy resin Universal epoxy adhesive. Also suitable as a casting compound.	clear	1 : 1	low flowable
	<b>MD POX 30 Min.</b>	Base: Epoxy resin Universal epoxy adhesive. Also suitable as a casting compound.	clear	1 : 1	low flowable



final hardening/h	property after curing	media resistance	temperature range ° C	curing time handling/ min.	article number	cont./g	packaging	unit
24	rest flexible	very good	-50 to +150 short term +180	15	MMB.3.S50 MMB.3.S380 MMB.3.S490	50 380 490	double cartridge double cartridge cartridge	12 9 6
24	rest flexible	very good	-50 to +150 short term +180	45	MMB.3L.S50	50	double cartridge	9
24	rigid	very good	-55 to +120 short term +140	60	MMB.S25 MMB.S25-BK MMB.S50 MMB.S400	25 25 50 400	double syringe double syringe/ blister card double cartridge double cartridge	14 8 12 6
24	rigid	very good	-50 to +120 short term +140	15	MMB.SW.S25 MMB.SW.S50 MMB.SW.S400	25 50 400	double syringe double cartridge double cartridge	14 12 6
24	rigid	very good	-50 to +120 short term +140	60	MMB.L.S25 MMB.L.S50 MMB.L.S400	25 50 400	double syringe double cartridge cartridge	14 12 6
24	rest flexible	good	-50 to +120 short term +140	10	MMB.C.S25 MMB.C.S50	25 50	double syringe double cartridge	14 12
24	rest flexible	good	-40 to +140 short term +160	1	MPU.S25 MPU.S25-BK MPU.S50 MPU.S400	25 25 50 400	double syringe double syringe/ blister card double syringe double cartridge	14 8 12 6
24	rest flexible	good	-40 to +140 short term +160	6	MPU.L.S25 MPU.L.S50	25 50	double syringe double cartridge	14 12
24	rigid	good	-40 to +120 short term +150	15	MET.S25 MET.S25-BK MET.S50 MET.S400	25 25 50 400	double syringe double syringe/ blister card double syringe double cartridge	14 8 12 6
24	rigid	very good	-50 to +120 short term +150	20	MPE.S50	50	double cartridge	9
48	rigid	very good	-50 to +120 short term +150	7 - 10	MPE.1.S25 MPE.1.S50	25 50	double syringe double cartridge	14 12
24	rigid	moderate	-40 to +80 short term +100	10	MPO.S25 MPO.S25-BK MPO.S50 MPO.S400	25 25 50 400	double syringe double syringe/ blister card double cartridge double cartridge	14 8 12 6
24	rigid	moderate	-40 to +80 short term +100	40	MPO.L.S25 MPO.L.S50 MPO.L.S400	25 50 400	double syringe double cartridge double cartridge	14 12 6

# MD MEGABOND 2000 / 2030

2-component high performance adhesive

MD MEGABOND two-component high-performance adhesive is the „Formula One racer“ amongst high-performance adhesives. It can be used where conventional adhesives do not achieve the required strengths.

MD MEGABOND permanently bonds metal, wood, ceramics and hard plastic. Bonding various materials is extremely quick and reliable with MD MEGABOND. The bonding surface area can be worked and painted after complete hardening.

- Excellent impact, peeling and shear strength
- High resistance to weathering
- Quick-fixing
- Requires short surface preparation
- Temperature resistant up to 120 °C

The applications of MD MEGABOND extends over all types of industry.



MD MEGABOND 2000

ISEGA certificate 40682 U15  
certificate of conformity

Application examples:

Bodywork and exterior areas: bumpers, spoilers, radiators, outside mirrors, bodywork sheets, windscreens and door windows. GRP parts, door panels, rear and front lighting, reinforcement and installation of floor panels, roof components and grille parts, front and rear end caps, mountings for advertising and catches. Plastic wheel covers, bumper brackets.

Working instructions:

Clean the glued surfaces thoroughly with a good grease solvent (e.g. Marston Cleaner). Excellent results can be achieved by mechanically roughening the glued surface. Insert the double cartridge (50 g) in the dispensing pistol and lock it in. Turn the sealing cap, attach the mixing nozzle, and tighten it. Push out the material with the dispensing pistol and dispose of the first 2 g, as this is not yet mixed at 1:1. In warm temperatures the setting time is reduced. Assemble the components and set them. Remove the mixing nozzle and dispose of it. Lock the cap. Store opened cartridges in a cool place and process them as quickly as possible (Can also be carried out without the mixing nozzle). Initial hardness is achieved after 5-10 minutes. Final hardness is achieved after 12 hours. Do not work at outdoor temperatures below 5 °C.



# MD MEGABOND 3000 / 3030

2-component high performance adhesive

MD MEGABOND 3000/3030 belongs to the newest generation of two-component adhesives. At a mixing ratio of 10:1 it can be used for technical plastics as well as for a lot of treated and untreated metals such as aluminium, stainless steel, brass, copper etc. Retains residual flexibility and has very high impact and peeling strength as well as good temperature resistance up to 150°C.

MD MEGABOND 3000/3030 is stable, fills larger gaps and does not pass off.

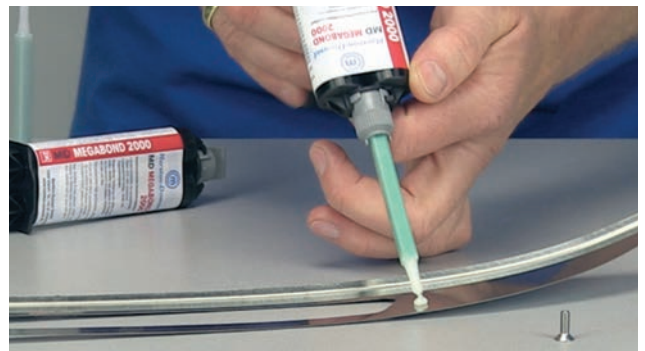
MD MEGABOND 3000/3030 has an excellent chemical resistance and is stable against weathering and UV.

MD MEGABOND 3000/3030 bonds even difficult to bond plastics such as polycarbonate permanently and reliably.

Chemical resistance:

Excellent resistant to e.g.

- Hydrocarbon
- Acids and bases (3-10ph)
- Brines



MD MEGABOND, black





# MD CLEARBOND

2-component high performance adhesive

MD CLEARBOND is a clear, odourless acrylic adhesive with medium viscosity.

The mixing ratio is 1:1.

Clear bonding of glass, plastics and metal can be performed with MD CLEARBOND.

MD CLEARBOND is impact and-vibration resistant.

Temperature resistance: approx. -40°C to +80°C

Working life: approx. 3 minutes

Fixing time: 5 minutes

Final hardening: after 24 hours

Gap filling: 0.50 mm

# MD PU SPEED

2-component instant adhesive

MD PU SPEED is a two-component instant adhesive. The mixing ratio is regulated automatically.

- Bonds many materials in a very short time
- Reaches extremely high strength in a very short time
- Reparatory of plastic parts is possible

MD PU SPEED is non-drip and weather and ageing-resistant. Reworking such as grinding, drilling and threadcutting is possible after just a few minutes.

Areas of application:

MD PU SPEED is used for repairing broken plastic parts (thermoplastics and duroplastics), bumpers, bucket seats and roof racks.

MD PU SPEED available in 2 versions 1 and 5 minutes.

Hard to the touch within approx. 1-2 minutes

Processing time approx. 30 seconds

Further processing time approx. 30 minutes

Complete cure 24 h

Temperature resistant -40°C to +140 °C

Good media resistance

MD PU SPEED 5 min

Hard to the touch within approx. 30 minutes

Processing time approx. 30 minutes

# FASTENINGS



Article No., container sizes, unit: page 40th. Dosing nozzles on page 59th.

# MD MET

2-component epoxy resin base

Liquid metal repairs incorrectly drilled boreholes, cracks and broken threads on metal, wood and plastic.

- Fills cracks and holes
- Universally applicable
- For on-the-spot repairs

MD MET is easy to apply. MD MET has a high-strength and is temperature-resistant up to 120°C. MD MET has a pot life of approx. 5 - 10 minutes, the curing time handling is approx. 15 minutes.

Application examples:  
Repairing incorrectly drilled boreholes, flaws and all cracks in metal, wood and plastic. Mechanical working is possible after a short time. Parts can be grounded milled, bored and painted over.

Working instructions:  
The parts to be repaired have to be clean and free of oil and grease. Roughing the surface increases the strength of the bond. Mechanical working is possible after 30 minutes. Final hardening occurs after 24 hours. Do not work at outdoor temperatures below 5°C. Replace the closure on the cartridge after use.

# MD POLY 1:1, 10:1

Construction adhesive polyolefins

MD POLY is a structural, two-component, solvent-free special adhesive. It has excellent adhesion on surfaces, which are difficult to bond such as PP, PE, PTFE or EPDM and demonstrates excellent moisture and chemical resistance.

MD POLY is available in ratios of 1:1 and 10:1. The pot life is 3 min at 25°C; it is hard to the touch after 2 h. MD POLY is especially developed to bond polyolefines and low-energy plastics such as PP and PE. Pre-treating with primer is not necessary.

- Special adhesive for PP, PE, Teflon and silicone
- Easy to use
- Excellent moisture and chemical resistance
- For bonding, sealing and casting of PP, PE, EPDM and many synthetic substances

1:1  
The product is in the ratio 1: 1 resin-hardener mixed. Pot life approx. 2-3 minutes Curing time handling approx. 7-10 minutes Temperature resistance -50°C - +120°C Final hardening approx. 24 hours

10:1  
The product is in the ratio 10: 1 resin-hardener mixed. Pot life approx. 5 minutes at +25°C Curing time handling approx. 2 hours Temperature resistance -40°C to +80°C Final hardening approx. 24 hours Processing temperature of +10°C to +30°C



# MD POX

## 2-component epoxy adhesive

MD POX is a very reactive chemical compound. After mixing, the two-components the adhesive achieves extraordinary strength.

For bonding metals, ceramics, glass, stone and lot of hard plastics. It is suitable for many on-the-spot repairs with high quality and little effort. Easy handling thanks to the automatically regulated two-injection system.

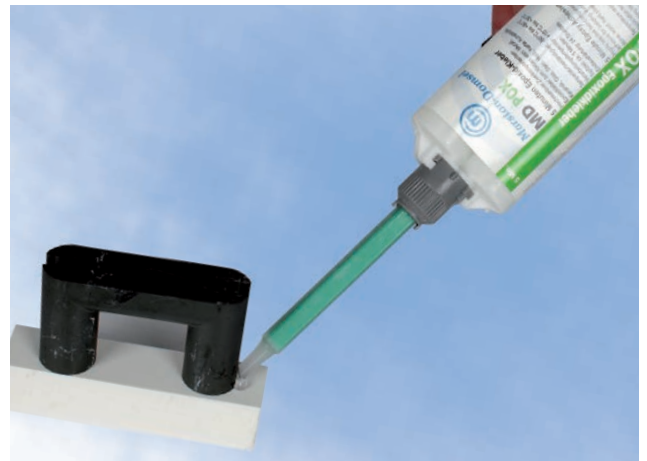
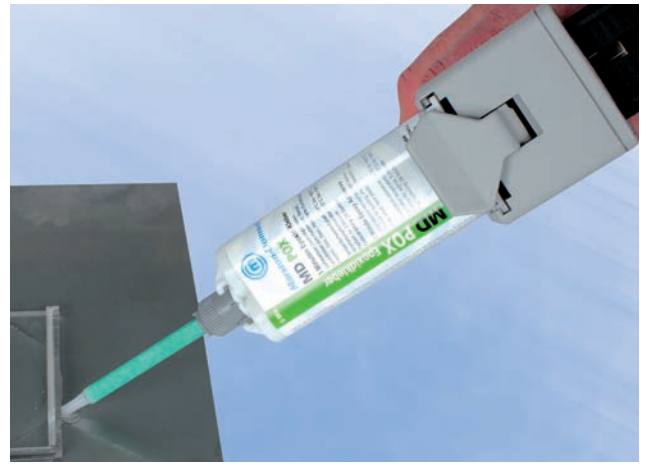
- Achieves extremely high strength
- Universally applicable
- Weatherproof
- Hardening in 5 or 30 minutes
- Also suitable as a casting compound
- Pot life: available in 5 or 30 minutes

MD POX remains stiffly flexible and can therefore guarantee permanent rigidity in case of impacts or vibration.

### Working:

The parts have to be clean and free of oil and grease. Roughing the surface increases the strength of the bond. Initial hardening is achieved after 5-10 minutes. Final hardening occurs after 24 hours. Do not work at outdoor temperatures below 5°C.

MD POX 25 g can be used with or without a mixing nozzle.



FASTSTE



Article No., container sizes, unit: page 40th. Dosing nozzles on page 59th.



# Selection table for 2K

		<div style="display: flex; flex-direction: column; gap: 5px;"> <div><span style="display: inline-block; width: 15px; height: 10px; background-color: #ADD8E6; border: 1px solid #ccc;"></span> suitable awarded</div> <div><span style="display: inline-block; width: 15px; height: 10px; background-color: #0070C0; border: 1px solid #ccc;"></span> good suitable</div> <div><span style="display: inline-block; width: 15px; height: 10px; background-color: #6A5ACD; border: 1px solid #ccc;"></span> tests necessary</div> <div><span style="display: inline-block; width: 15px; height: 10px; background-color: #696969; border: 1px solid #ccc;"></span> not recommended</div> </div>	MD MEGABOND 2000	MD MEGABOND 2030	MD MEGABOND 3000	MD MEGABOND 3030	MD CLEARBOND	MD POLY	MD PU SPEED	MD MET	MD POX
metal	Aluminium										
	Anodized aluminium										
	Die-cast aluminium										
	Brass										
	Cast iron										
	Carbon steel										
	Sheet iron										
	Ferrite										
	Cold-rolled steel										
	Electric coated metals										
	Galvanized steel										
	Copper										
	KTL coated metals										
	Powder coated metals										
	Tape coated steel										
	Stainless steels 1.4301, 1.4541, and 1.4307										
	Stainless steels 1.4401, 1.4571, and 1.4404										
plastic	ABS & ABS blends										
	PMMA										
	PBT & PET										
	Polyamide										
	Vinyl/PVC										
	Plastic polycarbonate										
Duroplaste	Polyurethanes										
	Polyester										
	Vinyl esters										
	Epoxy										
	Phenolic resins										
	Gelcoat/topcoat										
	RTM										
	SMC/BMC										
	Pultruded laminates										
	RIM	P-DCPD (Telene, Metton)									
Polyurethane											
Polyamide											
PMMA/PC/ABS/PS/PVC											
Polyolefin											
Other	ESG glass										
	Enamel										
	Ceramics										
	Wood										
	Plywood										
	Natural rubber										
	Mineralics										
	Lightweight honeycomb construction materials										
	Concrete										
	Natural stones										
	PP/PE										
	Teflon®										
	Viton										

# MD CONTACT ADHESIVE

Universal, powerful contact adhesive suitable for wood, plastic, veneer and plastic edge, metal, rubber, leather, felt, foams, paper and cardboard. MD contact adhesive with strong initial tack. Liquid, easily applied and fast setting, ideal for smooth surfaces. Elastic adhesive bond, high final strength, water resistant. All-purpose contact adhesive that is easily applied. Power quickly attracting contact adhesive bonds possible. Permanent elastic, compensates for material stresses, therefore ideal for flexible materials. Not suitable for Styrofoam®, soft PVC, PE, PP.

Processing / Instructions:  
Surfaces have to be clean and free of oil and grease. Two pages/contact bonding: adhesive surfaces reap uniformly thin, absorbent materials, possibly several times. Allow to dry. When dry to touch briefly and firmly press together. A correction is no longer possible!

- Temperature resistance up to + 80°C
- Aging and ozone resistant
- UV-and IR-stable
- Resistance against a variety of chemical media
- Elastic and waterproof



product	article number	content	unit	packaging
MD CONTACT ADHESIVE	MPG.D250	250 g	6	tin
	MPG.D750	750 g	6	
MD CERAMIC PASTE	MKE.K200	260 g	12	cartridge
MD COPPER PASTE	MCO.D500	500 g	10	tin
MD MIRROR ADHESIVE SET	MSK.K1-BK	2 g	10	syringe, blister card

# MD CERAMIC PASTE

Properties:  
MD ceramic paste is based on a highly molecular oil, an-organic binding agents and ceramic additives. The product can be used as a paste within a range of -20°C to approx. +150°C. The solid lubricant it contains can be deployed at over 1500°C. The product contains no metallic pigments and is free of graphite, molybdenum sulphide and sulphur-containing additives, too.

MD ceramic paste as a high-pressure and high-temperature lubricant in engineering for gear wheels, slideways, guide rails and joints mainly with slow sliding movements. Ensures rapid and simple installation and disassembly of things such as threaded parts. It permits the correct torque to be applied by excluding influences, which are based on thread irregularities.

Areas of application:  
For lubrication and for preventing etching on machine components, which are subjected to high temperatures such as bolts, slide bushes, guides, spindles, springs, wedges etc. Disassembly is made easier.  
For use as a separating agent for hot threaded connections, e.g. hot steam bolts, on turbines, exhaust pipes, gear wheels, valves, chains, slideways and shafts, which exist in areas such as the petrochemical industry, in power stations, milling works etc.  
For use as a separating agent in metal casting, pressure casting, forging and extruding if very high temperatures are reached.



# MD COPPER PASTE

## Properties:

- High application temperature range from -30°C to +1300°C
- Optimum dismantling prerequisites even after long periods of time
- High pressure resistance
- Good electrical conductivity
- Excellent lubricating and separating effect
- Prevents cauterisation and seizing up of steel components
- Excellent heat dissipation
- Sulphur, lead and nickel-free
- Very low friction coefficient
- Extremely adhesive
- Water and corrosion-resistant
- Excellent separation and lubrication effect
- Sealing effect against corrosive gases and liquids

## Areas of application:

The automotive and motorcycle industries, tractor construction, engine and electrical industries, turbines and nuclear power stations, engineering and transmission construction, foodstuffs industry, mining, the chemical and petrochemical industries, gas, water and electricity works etc. MD copper paste is ideal for the installation, maintenance and repair of: Guides, springs, brake lining bolts, exhaust bolts, connecting components, spark plugs, battery terminals, aggregates and central heating boilers for installation, maintenance and repair work.



# MD MIRROR ADHESIVE SET

High-strength special adhesive set for directly bonding rear view mirrors to the windscreen. The clear adhesive film guarantees a clean adhesive surface area.

- Easy to handle
- Permanent hold within a very short time
- Car service

The interior metal mirror arm is glued to the windscreen.

Base	urethane methacrylate
Viscosity (Brookfield LVF, Spindel 2, 2.5 rpm, 25°C)	2.200-3.000
Shear strength	1,08
Curing time handling sec.	<45
Final hardening * hours	24
Flash point °C	>100
Max. Gap-filling mm	0,3
Temperature resistance from or short periods	-50 to +130 -50 to +150
* refers to a temperature of 20 °C; lower temperatures slow down hardening	





# MD ACRYL-TAPE

MD ACRYL-TAPE is an extremely strong, double-sided adhesive tape. Recommended for bonding, mounting and securing outdoor and indoor use. Transparent. Holds permanent and securely to almost all smooth surface such as on metal, tiles, plastic, glass and wood. Ideal for mounting brackets, plates, hooks, storage elements etc. The surfaces will not be damaged. Moisture resistant.

Applications: metal, wood, glass, plastics, ceramics, rubber and paper.

Not suitable for PE, PP, PTFE (e.g. Teflon®), silicone, paper and vinyl wallpaper, non-cohesive substrates and on surfaces with stain-resistant coatings.

Stable in dry, clean and well ventilated areas at +10°C to +30°C for 1 year. Temperature resistance -30°C to 180°C.



# MD MULTI-TAPE

MD MULTI-TAPE is a self-welding tape consisting of PIB (polyisobutylene) and rubber. Welds immediately under tension to an airless, homogenous insulation without temperature and pressure.

- MD MULTI-TAPE is non-sticky and easy to handle and apply
- Clean removal after cutting open
- For insulating and impregnating electrical components
- Protects metal pipes against corrosion
- Excellent water and ozone resistance

Areas of application:

Connections, splicings, repairs to a large range of rotary current and distribution cables up to 46 kV. Insulation, impregnation of electrical components, anti-corrosion covering for e.g. metal pipes. With MD MULTI-TAPE, even rotary current cables up to 46 kV. can be insulated with ease.



product	article number	content	unit	packaging
MD ACRYL-TAPE	MAT.R1.5	1,5 m	10	polybag
MD MULTI-TAPE	MTR.R5	5 m	10	polybag
MD SILICONE-TAPE	MST.R1.8	0,5 x 180 cm	10	polybag
MD SOLAR-PLAX	MRF.75	150 x 75 mm	20	polybag
	MRF.220	150 x 220 mm	10	

# MD SILICONE-TAPE

MD SILICONE-TAPE is a self amalgamating, insulating tape material, which forms a permanent, waterproof, UV-resistant and airtight seal when cured. This easy-to-use flexible tape stretches around uneven shapes and forms and can be used for automotive, marine, electrical plumbing, sealing, insulating and general purpose application.

## Applications:

- Automotive, marine, electrical plumbing, insulating and general purpose application
- Good abrasion and tear properties
- To do waterproof seals
- Do not use on gas pipes or connections
- Water hose and pipe repair, weatherproofing electrical connections, bundling wires, plumbing reparations etc.
- Can be used for electrical applications due to its excellent insulation properties
- Compatible with a wide range of substrates

## Instructions:

The optimal processing temperature is between 0°C und +30°C. This tape can be applied in wet, non-oily conditions, although dry surfaces conditions are suggested for best performance. Hold the tape in position and apply a complete wrap back onto itself. This initial wrap secures the tape for additional wraps. Maintain a constant stretch as you continue to wrap, making sure each new layer "half laps" onto the previous layer. The overlaps will fuse together. The end of the final wrap must be pressed down onto prior wraps, using less stretch. For pressure applications stretch to the maximum and apply several tight layers. The layers from MD SILICONE-TAPE begin to vulcanize immediately forming a permanent, cohesive bond within 24 hours. Repositioning is not recommended after 2 minutes of wrapping.

# MD SOLAR-PLAX

MD SOLAR-PLAX is a unique, simple to use repair film, which cures by UV radiation or sunlight. The film is a glassfibre-reinforced polyester with extremely good adhesion and long-term durability. No mixing, no weighing, no sources of error.

Application: Industry: maintenance and repair of roofs, stairs, wash-basins, pipes, cables, cable shafts, switching cabinets etc.

Car/lorry/caravan/transport: bumpers, radiators, exhaust pipes, cables, truck bodies, wind deflectors, all plastic and body work parts.

Leisure/hobbies/sport: jet-skis, canoes, boats, GRP panels, surfboards, model construction, windows, fences, roofs, doors and all wooden, metal, glass, ceramic, concrete and plastic surfaces.

- Simple application – simply cut to the size of the repair surface and glue on – finished
- Extremely durable, glassfibre-reinforced plastic (GRP)
- Vibration-resistant, remains flexible
- Weather, UV and damp-resistant
- Good subsequent working properties (grinding, drilling, painting etc.)
- Resistant to oils and solvents
- Permanently temperature-resistant from -40°C to +200°C
- No shrinkage or expansion during working and hardening
- Adheres to all surfaces except polypropylene (PP)
- Rapid final hardening (over about 5 minutes depending on the UV radiation).



# MD AEROSOLS

for numerous application areas depending on individual needs

## ■ MD BRAKE CLEANER SPRAY

MD BRAKE CLEANER SPRAY is based on a special sort of special petrol. MD BRAKE CLEANER SPRAY is suitable for the rapid cleaning of drum and disc brake pads and blocks and also clutch parts. Also suitable for cleaning heavily oiled and contaminated machine parts. An optimum cleaning effect due to the high evaporation speed soon sets in. MD BRAKE CLEANER SPRAY is non-corrosive and does not corrode rubber and plastic parts (a self-test is necessary in any case). Brake cleaner is produced without CFCs or HCFCs and also without caustic substances.

Processing:

Spray on to the contaminated surface at intervals of approx. 20 cm and allow to run off. Repeat the process several times in case of heavy contamination.

## ■ MD FAST CLEANER SPRAY

is a highly concentrated cleaner for all maintenance and installation work. Cleans pore-deep, degreases and removes resin.

MD FAST CLEANER SPRAY for:

- Removing oil, grease, resin, adhesive residues, clutch and brake wear
- Cleaning of motor parts, springs, electrical equipment, starters, rolling bearings and guides
- Removal of difficult stains on cushions and textiles

Technical data:

Thickness (20°C): 0.82 g/ml

Pressure (20°C): approx. 3.2 bar

Spray rate: approx. 3 g/s

Shelf life: 12 months at room temperature

Processing:

Shake the container. Thoroughly spray contaminated parts, leave for the cleaner to take effect and then clean. Check for compatibility on plastic, rubber and colors on a hidden spot.

## ■ MD SILICONE SPRAY

is grease-free protection, lubricant, separation and care for plastics, wood, rubber and metals.

Properties:

- Lubricates without staining and invisibly
- Clean, non-exuding lubricant resin film
- Good surface finish
- High temperature resistance
- Protects against oxidation and corrosion
- Excellent electrical resistance
- Water-repellent and antistatic

Areas of application:

In paper and wood processing it prevents the building up of adhesive residues on presses and guides. The treatment of cutting bars, edges and tools guarantees light and clean cutting. In the field of conveyor technology, the adhesion of goods to conveyor belts, channels, slideways and slides is

prevented. Silicone spray insulates, protects and maintains plastic, rubber and metal parts with good lubricant effect. Protects electrical contacts against damp, rubber parts are cared for, do not become brittle and do not freeze and stick, plastic parts receive a good shine and do not become brittle, sticking and squeaking parts are freed up again and it is an excellent separating agent for moulding and spray injecting. Suitable as an assembly aid for hose connections.

Processing:

Shake the tin thoroughly before use. Spray on to the treated, cleaned and de-greased surface from a distance of 20-30 cm and wipe over with a soft cloth.

## ■ MD ZINC SPRAY

MD ZINC SPRAY (dark grey) is a fast-drying corrosion protection with outstanding long-term effectiveness for metals. The zinc and zinc compounds used in the zinc spray contain more than 90% of high-purity zinc. Application areas for zinc spray can be found in all sectors of industry, trade and in bodywork construction especially wherever metals are exposed to corrosion. Zinc spray adheres to almost all metals. MD ZINC SPRAY also offers guaranteed protection for drilling and cutting sites as well as primer for plant and machine parts, which are exposed to the weather.

Properties:

- Fast-drying, smooth, pore-free film
- Can be spot-welded, electrically conductive and conducting intermediate layer
- Heat-resistant up to approx. 500°C

MD ZINC SPRAY can be painted over but a self-test is necessary due to the large number of different painting systems available.

Technical data:

- Sand and dust test, in conjunction with DIN 50021:400/80 m < 0.5 mmn
- DIN 53151 crosscut: Gt 0-1n
- DIN 53152 bend test: no change in the surface

Processing: The surfaces to be coated have to be free of greases and oils. Treatment should take place at temperatures between 18°C and 25°C. Thoroughly shake the aerosol can for approx. 3 minutes, do a spray test and then apply from a distance of 20-30 cm in a criss-cross pattern. Dry to touch in 20-30 minutes. Completely dry after 24 hours.



## ■ MD ZINC ALU SPRAY

MD ZINC ALU SPRAY offers a heat-resistant corrosion protection for many base metals. MD ZINC ALU SPRAY adheres out-standing well to non-ferrous metal and iron.

The special benefits of zinc aluminium spray are:

- Fast-drying, smooth film
- High degree of shine
- The same color as freshly galvanised metals
- High abrasion resistance
- Temperature-resistant up to 600°C
- High adhesion
- Can be painted over

Areas of application:

MD ZINC ALU SPRAY is used in areas of industry, trade and other businesses wherever galvanised metals have been processed or damaged. MD ZINC ALU SPRAY is used as corrosion protection and represents an optical balance due to its similarity in color to freshly galvanised materials. The main application area for MD ZINC ALU SPRAY is in the fields of air conditioning and ventilation technology, heating systems, pipeline construction and machine housings.

Processing:

Working at room temperature between 18°C and 25°C. Before each spraying shake the can thoroughly for three minutes after the ball is heard and then perform a test spray. Remove rust and grease from the surfaces to be sprayed beforehand. Apply the spray in a criss-cross pattern from a distance of 20-30 cm. Wait 5-8 minutes between coats. Dry to touch in 15–20 minutes. Completely dry in 24 hours.

## ■ MD ZINC BRIGHTNESS SPRAY

Colour: light grey

Areas of application:

Zinc brightness spray is used in the industrial sector, the trades sector, and wherever galvanised metals have been processed or damaged.

Technical data such as MD ZINC-ALU SPRAY.

## ■ MD PTFE SPRAY

MD PTFE SPRAY is a silicone oil and PTFE-based colorless lubricant and separating agent for metal, rubber, plastics and other materials. It is grease-free, water repellent and anti-adhesive.

MD PTFE SPRAY can be used to best effect wherever mineral oils or MoS<sub>2</sub> cannot be used due to the risk of contamination e.g. in electrotechnology and electrical engineering plastics processing, textile industry etc.

Temperature resistant from -50°C to +260°C.

Processing:

Shake the container thoroughly for approx. one minute before use. Spray the greasing point and after an individual running period check whether the desired lubrication effect has been attained. Repeat the process if necessary.

## ■ MD RUST REMOVAL SPRAY

MD RUST REMOVAL SPRAY is based on mineral oils, iso-paraffinic hydrocarbon mixtures and corrosion protection-inhibitors. It is also a proven lubricant and contact spray. MD RUST REMOVAL SPRAY removes numerous maintenanceeasily and quickly, repair, servicing and production problems. Due to its excellent creep properties the rust removalspray also penetrates into the smallest cavities.

- Loosens seized connections such as screws, nuts and bolts
- Protects against corrosion, lubricates sliding surfaces, eliminates squeaking and creaking
- Displaces water from ignition contacts and electrical cables
- Guarantees contact on distributor caps
- Maintains and cleans brake rods and chains of all kinds

Processing:

Shake the container thoroughly and wet the surface to be treated. The treated parts can be loosened after just a few minutes.



## ■ MD LEAK DETECTION SPRAY

MD LEAK DETECTION SPRAY tested by the German Technical and Scientific Association for Gas and Water (DVGW) for detecting leaks in compressed air and gas systems or fluid pipes.

- Shows up even small leaks immediately through foam formation
- Very suitable for use in inaccessible locations
- Non-flammable and therefore also specifically applicable in gas pipes or gas bottles

Areas of application:

Suitable for checking for leaks in underground and fluid pipes, heating pipes, boilers, tyres, taps, compressed-airbrakes, valves etc.

## ■ MD WHITE GREASE SPRAY

is a hydrophobic multi-purpose grease with white lithium-reinforced lubricants.

- Extraordinarily adhesive, no lubricant breakaway
- Lubricates all metallic moving parts and sliding surfaces
- Also applicable for technical plastics and plastics
- Suitable for use with running machines
- Metal-free, non-contaminating long-term protection
- Sweat, spray and saltwater-resistant
- Temperature-resistant from -40°C to +140°C
- Corrosion-inhibiting

Areas of application:

Across the entire automotive range in repair and maintenance companies of all kinds. MD WHITE GREASE SPRAY is suitable for use as battery terminal grease, a separating agent and conserver.

## ■ MD CHAIN AND ROPE CARE SPRAY

is a fully synthetic, transparent and thin chain and rope care spray with a strong capillary effect and long-term lubrication. It penetrates chains and wire ropes from the inside out and is cold and heat-resistant from -15°C to +250°C.

- Adheres well, suitable for fast-running chain and rope constructions, no loss through dripping
- Neutral, non-aggressive, anti-static and noise-reducing
- O-ring neutral, contamination and dust-resistant

Areas of application:

Deployable in industry, trade and the repair of chains and wire constructions, vehicles, motorcycles, mopeds, machines etc.

## ■ MD COLD FREEZER SPRAY

Highly versatile for long-term, rapid cooling of industrial and manufacturing machines.

- Indispensable for the rapid location of thermal overloads in the electrical field
- Valuable aid in the motor trade, for example for cooling overheated engine parts
- For short-term shrinking of metal
- For short-term icing of water pipes
- Immediate cooling down to -65°C due to its unique composition
- The cold spray is non-conductive and can be used with any material

Processing:

Generously apply the cold spray from a distance of approx. 20 - 30 cm! Do not use in the food sector!

## ■ MD UNIVERSAL DRILLING AND CUTTING OIL SPRAY

This high-performance drilling and cutting oil combination can be used for all metal-cutting processes and especially for difficult to work materials such as stainless steel metals, aluminium, hard metals etc.

- Cooling lubricant with no aggressive additives
- High adhesive strength, which increases tool service life
- Protects against surface damage
- Permits very high cutting speeds

Areas of application:

Can be deployed for drilling, milling and cutting steel and non-ferrous metals of all kinds. Conserves effectively and increases tool performance e.g. paring chisels, drills, screwdrivers, milling tools and saw blades.

## ■ MD ALUMINIUM SPRAY

Light alloy coating consisting of 99.5% micro-fine pure aluminium platelets

- Resistant to high temperatures up to 900°C
- Weather-resistant, film-like, cathodic corrosion protection
- Abrasion, scratch and brush-resistant aluminium coating
- Resistant to most acids and lyes, steam jet-resistant
- Dries quickly and forms an extraordinarily smooth surface
- Dual protection due to aluminium platelet pigmentation and additional plastic coating
- Adheres to all metals, ceramics, wood, glass and tiles as well as most plastics
- Electrically conductive, easy to work and overpaintable

MD ALUMINIUM SPRAY is ideal for quick repairs galvanized surfaces and damages after welding, drilling, filing, cutting or sawing. The spray is filled with environmentally friendly, neutral propellant.

Areas of application:

Suitable for maintenance and conservation of value of pipes, steel and machine construction, furnaces, heating, steam and combustion systems, turbines, air conditioning and ventilation technology, exhaust systems, boiler and container protection etc.

## ■ MD STAINLESS STEEL SPRAY

Heat-resistant stainless steel alloy to be extremely resistant cathodic protection with simultaneous plastic coating.

- Alloy of chrome, nickel and manganese pigments
- Secure adhesion to all metals, wood, glass, stone etc.
- Strong resistance to aggressive chemicals
- The stainless steel coating gives surfaces a metallic, color-matched gloss
- The same color as non-rusting steel
- The coating is highly weather-resistant and very abrasion and impact-resistant

Areas of application:

For the color-matched repair of stainless steel parts and for the coating and optical improvement of other parts with a stainless steel effect (surface metallisation). Offers long-term protection for pipes, machines, silos, turbines etc. For surface improvement after welding. Suitable as spot welding paint.

## ■ MD STAINLESS STEEL CARE SPRAY

Intensively cleans, maintains, protects, conserves and seal all smooth stainless steel and polished metal surfaces.

- The firmly adhesive water and dirt-repellent care film protects against oxidation and environmental influences
- Has an anti-static effect and protects effectively against finger prints and other contamination
- Does not affect painted finishes
- Applicable wherever stainless steel needs to shine.

Areas of application:

For cleaning and care in kitchens, in sanitary areas, in lifts, on railings, on stainless steel surfaces etc. MD STAINLESS STEEL CARE SPRAY can be used in public houses, restaurants, hotels, offices, airports, vehicle fleets, hospitals, office complexes and in industry. MD STAINLESS STEEL CARE SPRAY is also suitable for foodstuffs processing and health sectors.





## ■ MD ANTI STATIC FOAM CLEANER SPRAY

Ensures a mirror-like shine on all smooth surfaces: windows, mirrors, tiles, car interiors, glass, monitors, plastic surfaces etc.

- Powerful and yet mild cleaner
- Very economical due to high coverage
- Good skin tolerance
- Pore-free, smear-free and spotless cleaning
- Removes grease, smears, nicotine and fingerprints from all surfaces
- Cleans with its active foam effect

Processing:

Spray on MD ANTI STATIC FOAM CLEANER SPRAY from a distance of approx. 20-30 cm and wipe off with an absorbent cotton cloth or paper. Increase the exposure for fly droppings or serious contamination on windows.

## ■ MD ANTI SEIZE CERAMIC SPRAY

Special long-life high-performance ceramic-based lubricant with high-technology properties.

- High temperature stability from -40°C to +1400°C and extremely pressure-resistant up to 220 N/mm<sup>2</sup>
- Excellent adhesion and lubricant properties due to lubricant and separation agents based on special ceramic base materials
- For highly stressed bearings and sliding surfaces, prevents seizing, friction-induced galling, wear and corrosion
- Seals flanges, flat seals and pump housings especially in the food sector as it contains no metals and graphite and is thus non-poisonous
- Very resistant to gases, acids, lyes and salts
- Prevents electro-chemical corrosion

Areas of application:

Universally applicable on all moving and highly stressed connections, assembly parts, bearings, sliding surfaces, nuts, screws, flanges and bolts. For stainless steel thread-cutting. No seizing of stainless steel and metal alloy threaded connections.

## ■ MD ANTI SPLATTER RELEASE SPRAY

Best possible protection against adhesion and burning in of welding sparks and beads on gas nozzles and material surfaces.

- Silicone- and acid-free
- Contains 95% pure material
- Applicable for electric and gas shielded arc welding
- Also suitable as a plastic mould separating agent

Areas of application:

Suitable for all weldable materials (e.g. steel, nirosta and aluminium). Treated surfaces can be painted or metallised after simple after-treatment.

## ■ MD MULTI FUNCTION OIL SPRAY

is a low-viscosity oil spray for lubricating and maintaining metal parts. It is used in the automotive sector, engineering, metalworking, hobby sector and in household. MD MULTI FUNCTION OIL SPRAY penetrates threads and eliminates and lubricates hinges, rollers, springs, watertaps, window and door handles, office chairs etc.

- Displaces damp
- Hydrophobe for surfaces e.g. on electrical contacts, car ignitions tools, motorcycles and outboardmotors
- Cleans and protects
- Dissolves crayon stains, grease, tar, rubber and adhesive residues
- Leaves a protective film against rust and corrosion on bicycles, prams, chrome parts, motorcycles, outboard motors and tools
- Loosens rusted parts
- Penetrates deeply and loosens rusted, corroded and seized nuts, screws, switches, cables and other closures.
- Loosens seized mechanisms
- Loosens and greases jammed door locks, hinges, zips, sewing machines, switches, couplings and cables

Processing:

Shake the can before use. Clean surfaces to be treated and then apply the material sparingly and accurately.

## ■ MD ADHESIVE SPRAY

MD ADHESIVE SPRAY loosens small gluing problems in the automotive, trade, model construction, DIY, hobby and household areas. Spray adhesive bonds paper, cardboard, carpet, wood, cork, leather textiles, rubber, foam rubber and plastic permanently and reliably.

- Clean, quick and easy to use
- High immediate bonding power and many possible uses
- Economic and precise application due to the adjustable spray head
- Heat resistance: stressed: 80°C, unstressed: 100°C

Processing:

Shake the can thoroughly. Surfaces have to be free of grease, dry and clean. Apply to one side of absorbent surfaces and press together the parts to be bonded immediately applying strong pressure. Apply to both sides of non-absorbent surfaces wait 15 minutes (20°C) and then bond. Spray from a distance of 20-25 cm. Turn the can on its head after spraying and spray until no more adhesive comes out of the nozzle.

product	article number	content ml	unit	packaging
MD BRAKE CLEANER SPRAY	MSP.BR.Y600	600	12	spray can
MD FAST CLEANER SPRAY	MSP.SR.Y400	400	12	
MD SILICONE SPRAY	MSP.SIL.Y400	400	12	
MD ZINC SPRAY	MSP.ZN.Y400	400	12	
MD ZINC-ALU SPRAY	MSP.ZNA.Y400	400	12	
MD ZINK BRIGHTNESS	MSP.ZB.Y400	400	12	
MD PTFE SPRAY	MSP.TEF.Y400	400	12	
MD RUST REMOVAL SPRAY	MSP.MOS.Y400	500	12	
MD LEAK DETECTION SPRAY	MSP.LS.Y400	400	12	
MD WHITE GREASE SPRAY	MSP.WF.Y400	400	12	
MD CHAIN AND ROPE CARE SPRAY	MSP.KS.Y400	400	12	
MD COLD SPRAY FREEZER	MSP.KÄ.Y400	400	12	
MD UNIVERSAL DRILLING AND CUTTING OIL SPRAY	MSP.SÖ.Y400	400	12	
MD ALUMINIUM SPRAY	MSP.AS.Y400	400	12	
MD STAINLESS STEEL SPRAY	MSP.ES.Y400	400	12	
MD STAINLESS STEEL CARE SPRAY	MSP.EP.Y400	400	12	
MD ANTI STATIC FOAM CLEANER SPRAY	MSP.MSR.Y400	400	12	
MD ANTI SEIZE CERAMIC SPRAY	MSP.AK.Y400	400	12	
MD ANTI SPLATTER RELEASE SPRAY	MSP.ST.Y400	400	12	
MD MULTI-FUNCTION-OIL SPRAY	MSP.MF.Y400	400	12	
MD ADHESIVE SPRAY	MSP.SK.Y400			



## Cleaning wipes - extreme

Wipes made high-quality, lint-free fleece

- soaked in a highly-effective cleaning fluid
- are ideal for removing stubborn deposits (e.g. fats, resins, oils, soot, lubricants, paint and varnish residue, felt markers, pens, glue residues, nicotine) from all water-resistant surfaces (e.g. metal, plastic, ceramic, and wood).

The mobile cleaning unit for household work, assembly, outdoor work, and in the workshop as well as for hobby and leisure activities.

Art.-No.: MRT.E125 unit 1 bucket with 125 pieces  
250 x 320 mm

# MD WORK-TOOLS


## Dosing pistols, dosing nozzles

With its wide range of tubes and capillary nozzles, Marston-Domsel offers possibilities for the most varied bead sizes. With Marston-Domsel dosing systems you have every material application effortlessly under control.

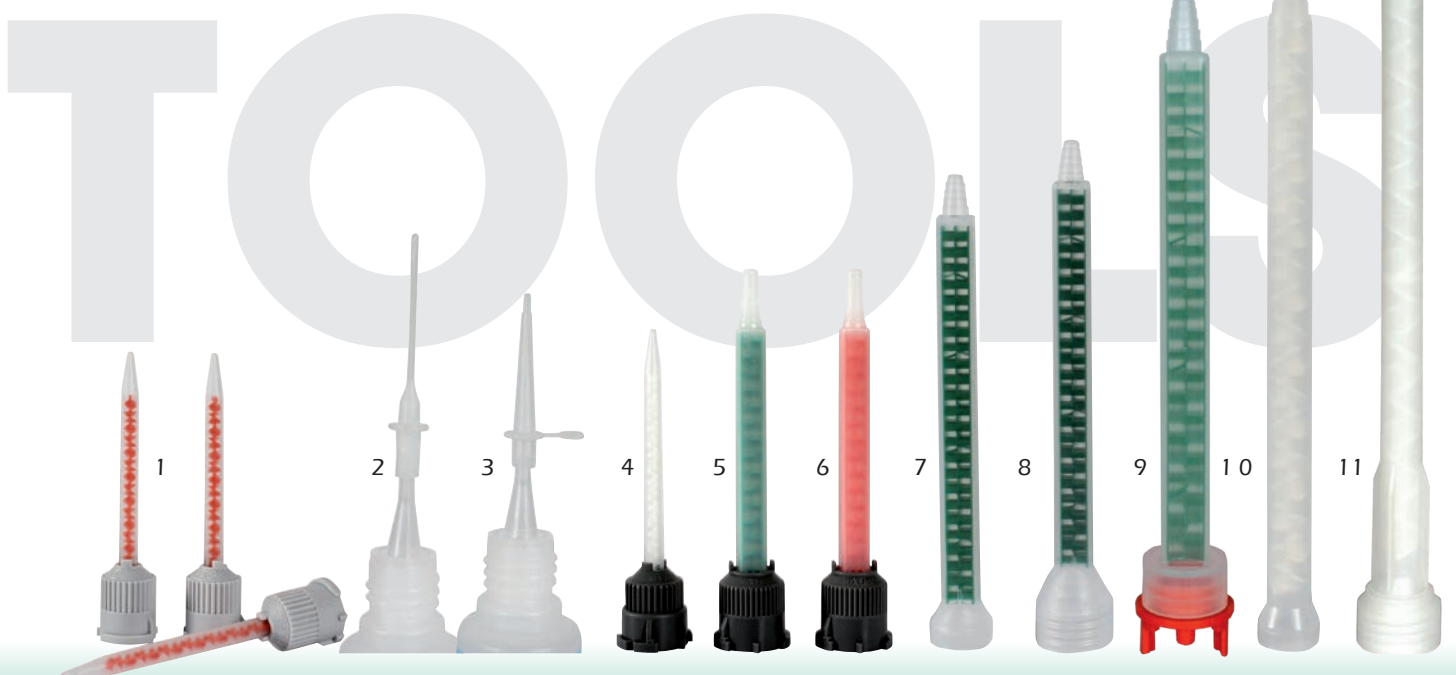
- Optimum mixing and application of material in one operation
- Precise application control through easy to use
- Fast order times
- Low material loss through precise dosage
- Cartridges can be exchanged rapidly
- The dosing gun is comfortable

product	cartridge size	mixing ratio	material	article No.	unit
	Dosing gun for 50 g double cartridge	1:1, 2:1, 4:1, 10:1	plastic	MZ.DP.3	1
	Dosing gun for 50 g double cartridge	1:1, 2:1	plastic	MZ.DP.50	1
	Dosing gun for 50 g double cartridge	10:1	plastic	MZ.DP.2	1
	Dosing gun for 50 g double cartridge	1:1	metal	MZ.DP.1	1
	ECO Dosing gun for 400 g cartridge	1:1	metal	MZ.DP.400	1
	Dosing gun for 380 g cartridge	10:1	metal	MZ.DP.380	1
	Dosing gun Deluxe for 300 g cartridge	1:1	metal	MZ.DP.300	1
	Compresses air gun for 400 g double cartridge	1:1	metal	MZ.DP.400 DL	1



product	cartridge size	mixing ratio	material	article No.	unit
	Deluxe gun for 400 g double cartridge	1:1	metal	MZ.DP.400D	1

product	article No.	mixing ratio	packaging
1. Mixer CA-STAR	MMT.STAR	4:1	10 pieces in a polybag
2. Capillary nozzles	MKD.10	for MD GLUE	
3. Fine drip tips	MFS.10	for MD GLUE	
4. Mini mixer	MMT.MINI	1:1	
5. Standard mixer	MMT.M10-N	1:1	
6. Mixer	MMT.S10:1	10:1	
7. Quadro mixer for 400 g cartridge	MMT.S400	1:1	
8. Quadro mixer for 380 g cartridge	MMT.S380	10:1	
9. 2K MS Polymer mixer	MMT.MS	1:1	
10. Mixer for 490 g cartridge	MMT.480	10 : 1	
11. Universal Mixer	MMT.UNI	1:1	



# MD PACKAGING

Marston-Domsel offers a wide array of packaging for various adhesives. Whether bottles, tubes, pump dispensers or the new applicator sticks, we have the right package for each metering type.

Filling opportunity for MD GLUE



1 cartridge 5 g | 2 bottle 5 g | 3 bottle, oval 20 g | 4 bottle, oval 50 | 5 bottle with brush 10 g | 6 bottle, round 5 g | 7 bottle, yellow, round 5 g | 8 bottle, round 10 g | 9 bottle, yellow, round 20 g | 10 bottle, round 20 g | 11 bottle, round 50 g | 12 bottle, round 500 g



13 bottle 20 g | 14 bottle 20 g, oval | 15 dosing bottle 20 g | 16 bottle 50 g | 17 bottle 50 g | 18 bottle 10 g, oval | 19 bottle 20 g, oval | 20 bottle 50 g, oval | 21 bottle 100 g, oval

Coloured caps for MD GLUE bottle 20 g and 50 g.

25 g dosing pen with stand  
12 g dosing pen for Xtreme 1, 2, 3  
Can be used for all MD GLUE.



Filling opportunity for MD anaerobic materials



1 bottle 2 g | 2 bottle 10 g | 3 bottle 10 g | 4 bottle 10 g | 5 bottle 24 g | 6 bottle 50 g | 7 bottle 250 g

New closure for anaerobic bottles



8 concertinabottle 50 g | 9 bottle 50 g | 10 bottle 250 g

Coloured caps for 10g anaerobic bottles

Tubes 50 g, 100 g 250 g

Pump dispenser 15 g, 50 g





Filling opportunity for MD anaerobic materials



Especially for private-label customers,  
100 g press pack can.  
Minimum order 2,000 pieces

Dosing pen for Anearobe 12 g



Filling opportunity for MD two-component adhesive



double syringe 1:1, 25 g

double cartridge 1:1 50 g

double cartridge 10:1 50 g

double cartridge 1:1 200 g

double cartridge 1:1 400 g



double cartridge 10:1 490 g

double cartridge 10:1 380 g

Peeler-cartridge 1:1 300 g

Automatic-cartridge 200 g

# MARSTON-DOMSEL - Second plant

Radial shaft seals with membrane collar

We specialise in the micro-technical area and can seal a shaft diameter up to  $\varnothing$  1.4 mm without problem!

As a specialised manufacturer of radial shaft seals with diaphragm seals, Domsel offers high-quality products with superior properties. The Domsel radial shaft seals have been a favourite of machine and engine manufacturers in many countries, especially in difficult and extreme seal cases.

For these Domsel radial shaft seals, we use the following materials:

NBR	Nitrile butadiene elastomer
EPDM	Ethylene-propylene-diene polymer
MO	Silicone elastomer
FPM	Fluor-elastomer

Domsel radial shaft seals guarantee:

High peripheral speeds	up to 32 m/s
Permissible eccentricities	up to 0.4 mm.
Permissible concentricity deviation	up to 0.3 mm
Temperature range	from -60 to +200 ° C
Pressure application	up to 10 bar

Low friction effect!

Minimal formation of striae! The Domsel radial shaft seal is supplied as a ready-to-install and maintenance-free sealing element. In the case of abnormal stress on our sealing ring, this should be noted in your order.

## Domsel-Dichtringe

- Im Seel
- 52372 Kreuzau
- Tel.: 02422 / 5009 -3
- Fax: 02422 / 5009 -40



The information in this catalog have been compiled to the best of our knowledge and is intended purely for information purposes. No claims can be inferred therefrom. Before use, thorough experiments should be carried out. Our brochure represents a basis. Responsibility for possible measures to protect property and persons lies with the user. Safety data sheets on the required standard are available for all products on request.



# Marston-Domssel GmbH

Your partner for sealing, adhesive, safety and fixing systems

