ONE COMPONENT - MAXIMUM STRENGTH

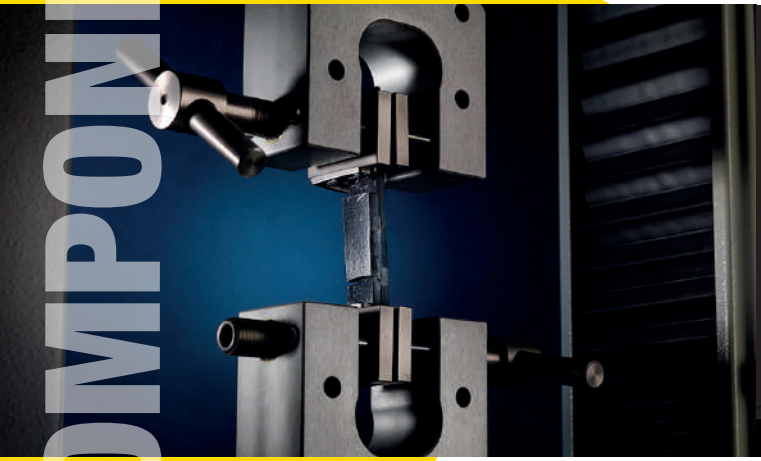
- POLYURETHANIC ADHESIVES/SEALANTS
- MS POLYMER ADHESIVES/SEALANTS
- SOLVENT-BASED ADHESIVES
- THREADLOCK ANAEROBICS
- CONTACT CYANOACRYLATES
- HOT-MELT ADHESIVES

ONE-COMPONENT

MASTIKOL®

TOTALE ADESIONE ALL'INNOVAZIONE

ONE-COMPONENT



INTRODUCTION

In the dynamic world of design and engineering, professionals face daily challenges in improving both projects and production processes. Responding to this need, Mastikol presents an innovative range of adhesive solutions. These solutions allow customers to create products with creativity, efficiency, and effectiveness. Covering a wide variety of applications and substrates, Mastikol adhesives are versatile and offer tailor-made solutions to optimize the assembly process.

Mastikol provides its technical expertise to support customers in selecting the most suitable solution for developing bonding projects—from the prototype stage to the creation of the first components, all the way to mass production. We support customers through a detailed application study, recreating adhesive joints exactly as desired and testing the mechanical performance of the solution best suited to their process.

MASTIKOL®
TOTALE ADESIONE ALL INNOVAZIONE

POLYURETHANIC ADHESIVES/SEALANTS

One-component polyurethane adhesives and sealants which cure upon exposure to moisture and provide excellent adhesion on a wide variety of substrates. They seal and bond joints subject to movement, as well as materials such as concrete, stone, porous and non-porous surfaces, PC, PS, PU, PVC and various plastics, ceramic tiles, composite materials, and metal surfaces including copper, zinc, aluminium, stainless steel, wood, and glass.

Our products are widely used in the automotive, container, caravan, railway carriage, marine, ventilation, and air-conditioning industries, as well as for bonding mirrors, glass, and numerous nautical applications. They are also used in the assembly of structures, ceilings, and flooring in buses, trucks, and trains. They offer strong adhesion on many different surfaces—even mixed substrates—often without the need for a primer. They can be applied on damp or wet surfaces and are silicone-free. With a 100% solids content (no shrinkage), they can be overpainted with most industrial coatings.

	MK 2639	MK 442	MK 0130-N
SKIN TIME	40 ÷ 60 min	90 ÷ 120 min	25 ÷ 40 min
POLYMERIZATION TIME	4.0 mm / 24 h	3.0 mm / 24 h	4.0 mm / 24 h
TEMPERATURE RESISTENCE	- 40 ÷ + 100 °C		- 40 ÷ + 95 °C
VISCOSITY	> 200.000 mPa.s		> 300.000 mPa.s
HARDNESS	50 ± 2 Shore A	35 ± 2 Shore A	65 ± 2 Shore A
ELONGATION %	> 500 %	> 700 %	
COLOURS	White - Black - Grey	Black	Black
APPLICATION	Used in the production of cars, containers, caravans, railway carriages, ventilation and air-conditioning systems, the bonding of mirrors, and various applications in the marine sector. Suitable for exterior and interior bonding, joints subject or not subject to movement, and expansion joints in industrial flooring.		Designed for bonding windshields and side windows on vehicles with or without airbags in the automotive industry. Its long open time allows for easy positioning of the windshield under any weather conditions. It passes the crash test after 1 hour according to the FMVSS 212 standard.

MK 2639

MK 442

MK 0130-N

MS POLYMER ADHESIVES/SEALANTS

MS Polymer adhesives/sealants (Modified Silane Polymers) are hybrid polymer-based sealing and bonding materials developed to combine the advantages of polyurethane and silicone sealants while maintaining high adhesion and flexibility. These materials are used in construction and industry for elastic, durable sealing on a wide variety of surfaces. Their application fields are the same as those of polyurethane sealants. MS Polymer sealants offer an advanced and versatile solution for applications requiring high weather resistance, strong adhesion, and an excellent aesthetic finish. Compared to other sealants, they provide superior outdoor performance and a reduced environmental impact, making them a safe choice for operators and the environment without compromising strength, flexibility, or elasticity. They are free from isocyanates, silicones, and solvents, which also makes them suitable for use in environments where proper ventilation is not possible.

MK HS 302

MK HS 303

MK HS 304

MK HS 305

Simson ISR 70-03

Simson ISR 70-08 AP

	MK HS 302	MK HS 303	MK HS 304	MK HS 305	MK HS 306	MK HS MSP5	Simson ISR 70-03	Simson ISR 70-08 AP
SKIN TIME	10 ÷ 15 min					45 ÷ 60 min	10 ÷ 15 min	
POLYMERIZATION TIME	3.0 mm / 24 h	3.5 mm / 24 h	3.0 mm / 24 h		3.5 mm / 24 h	4.0 mm / 24 h	3.0 mm / 24 h	
TEMPERATURE RESISTANCE	- 40 ÷ + 100 °C		- 40 ÷ + 90 °C			- 40 ÷ + 80 °C	- 40 ÷ + 120 °C	
VISCOSITY	> 300.000 mPa.s				> 30.000 mPa.s	> 40.000 mPa.s	-------	------
HARDNESS	60 ± 2 Shore A		35 ± 2 Shore A	60 ± 2 Shore A	30 ± 2 Shore A	40 ± 2 Shore A	55 ± 2 Shore A	65 ± 2 Shore A
TENSILE STRENGTH	3.0 ÷ 3.5 MPa	2.5 ÷ 3.0 MPa	2.0 ÷ 2.4 MPa	2.5 ÷ 3.0 MPa	1.0 ÷ 1.5 MPa	1.0 ÷ 2.0 MPa	2.5 ÷ 3.0 MPa	3.0 ÷ 3.5 MPa
ELONGATION %	> 300 %		> 550 %	> 350 %	> 250 %	> 200 %	> 250 %	
COLOURS	Grey	White – Black	White – Black – Grey - Transparent		White – Black	Ocher	White – Black - Grey	Black
APPLICATION	Elastic sealing and bonding for bus, caravan, train, and truck structures. Bonding and sealing of roofing elements. Bonding of ceilings in trains, buses, and trucks. Bonding of flooring systems and expansion joints.				Production of multilayer panels in the construction, rail, and bus sectors. Suitable for spray application. Can be used as an anti-vibration/anti-drumming barrier.		Particularly suitable for the construction of elastic joints that also require high strength.	Windshield bonding. Passes the crash test after 45 minutes according to the FMVSS 212 standard.

SOLVENT-BASED ADHESIVES

The range of solvent-based adhesives meets most of the needs of the footwear industry and vehicle outfitting involving fabrics. They are offered with different solid contents and can be applied by spray, brush, or spatula. The adhesive's binding agents, dispersed in an organic solvent that evaporates, solidify into their final form, creating the ultimate bond with the substrates. The purpose of the relatively volatile solvents is solely to facilitate the application of the adhesive. They ensure that the binding agent remains liquid and can be applied easily, improving wettability. All our solvent-based adhesives are free from toluene.

	MK 2011	MK 1400-N	MK 1520-N	MK 3353	MK SPRAY BOND
TECHNOLOGY	Polychloroprene		Polyurethane	Nitrile	Syntethic Elastomers
VISCOSITY	1'40" ÷ 2'00" (Ford – Foro 4)	10.000 ± 3.000 cps	1'00" ÷ 1'30" (Ford – Foro 8)	1.500 ± 500 cps	Spray
TACK FREE	20 ÷ 30 min	25 ÷ 30 min	25 ÷ 30 min	1 ÷ 5 min	15 ÷ 30 sec
SOLID CONTENT	18 ± 2 %	24 ± 2 %	19 ± 2 %	25 ± 2 %	38 ± 2 %
APPLICATION	Particularly used for bonding leather and faux leather in saddlery applications and luxury vehicle interiors. Used for bonding wood, chipboard, plastic laminates, rubber, sports and anti-slip flooring, cork, linoleum flooring, canvas, marble, and smooth stones. Available in different viscosities, for spray, brush, or spatula application.		Used in the nautical sector for repairing inflatable boats and tenders. Good resistance to marine environments. Recommended for assembling PVC and polyurethanes. Used for bonding rubber, synthetic materials, thunit, hypalon, leather, faux leather, and hides. Heat-reactivatable.	Used in the aeronautical sector for bonding metal with Velcro. Employed for assembling a wide range of substrates, including flat roofing systems, filled foam materials, aluminium, and flexible PVC.	Positioning of pre-preg fabrics in the production of fiberglass components. Tested according to the SHORT BEAM TEST ISO 14130, measuring pressure and flexion of the composite specimen to verify the interlaminar strength between the fabric layers positioned with the product.

MK 2011

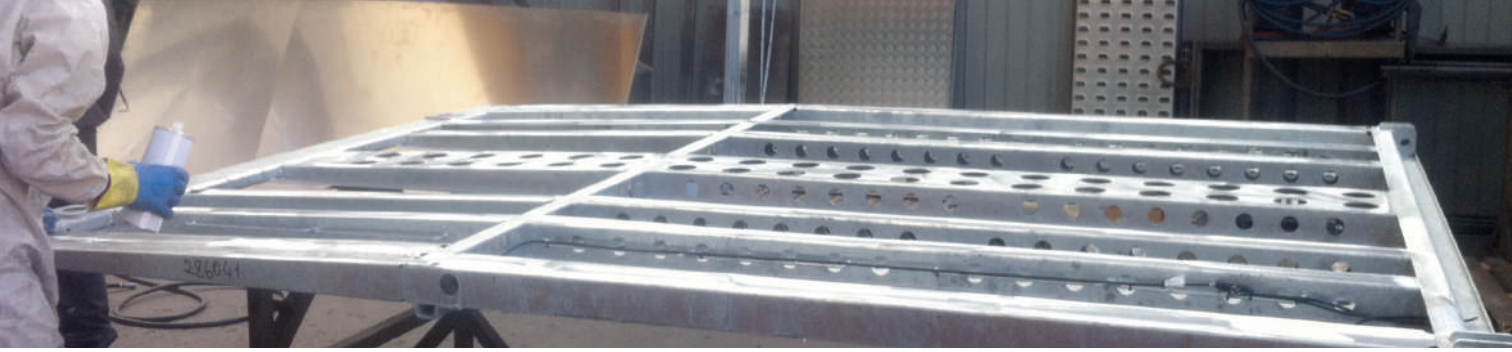
MK 1400-N

MK 1520-N

MK 3353

MK SPRAY BOND

MK 1520-N



SOLVENTS AND CLEANERS

A complete range of solutions for the industrial cleaning of surfaces and work equipment. Ketonic, aliphatic, and alkanic solvents compatible with most substrates, such as metals (galvanized, painted) and solid plastics (rigid and flexible PVC, PU, PA). High degreasing and sanitizing power for surfaces; suitable for use prior to bonding or painting cycles. They guarantee the complete absence of dry residue (they do not leave streaks on surfaces).

Mastikol also pays the utmost attention to operator safety; therefore, our solvents are free from toluene and other volatile compounds harmful to humans. Some of our solvents can be used as thinners for solvent-based adhesives. For details regarding dilution, compatibility with your materials, and available formats, always refer to your Mastikol technician.

MK 4060

MK SOL 11

MK SOL 13

MK SOL NEO

MK WIPES

	MK 4060	MK SOL 11	MK SOL 13	MK SOL NEO	MK WIPES
TECHNOLOGY	Aliphatic solvent	Acetone	Ketone solvent (MEK)	Alkanic solvent	Isopropyl alcohol
VISCOSITY	50 ÷ 100 cps				Impregnated wipes
EVAPORATION	40 ÷ 50 min	5 ÷ 10 min			30 sec
APPLICATION	Metal cleaning before powder coating.	Equipment // Surface cleaning.		Equipment // Surface cleaning Usable as a thinner for Mastikol polychloroprene adhesives.	Surface cleaning.

THREADLOCK ANAEROBICS

Mastikol anaerobic adhesives are suitable for securing or sealing screws, nuts, bolts, and all threaded parts. They prevent metal components from loosening due to vibrations and protect the joint from corrosion. They work by filling the gaps between components and react in the absence of air. Mastikol anaerobic adhesives comply with the most important certifications for drinking water, gas, and civil applications (DVGW EN 751-1 // WRAS // BAM).

MK 7222

MK 7243

MK 7270

MK 7316

MK 7574

MK 7577

MK 7638

MK 7700

	MK 7222	MK 7243	MK 7270	MK 7316	MK 7574	MK 7577	MK 7638	MK 7700
COLOUR	Violet	Blue	Green	Blue	Red	Yellow	Green	Fluo Blue
STRENGTH	Low	Medium	High	Medium			High	
VISCOSITY (cps)	800 ÷ 1000	500 ÷ 800	300 ÷ 500	30.000 ÷ 50.000	40.000 ÷ 70.000	20.000 ÷ 40.000	1.000 ÷ 1.500	120 ÷ 180
BREAKAWAY TORQUE	10 ÷ 15 N*m	20 ÷ 30 N*m	45 ÷ 55 N*m	25 ÷ 32 N*m	25 ÷ 35 N*m	25 ÷ 35 N*m	45 ÷ 55 N*m	35 ÷ 40 N*m
APPLICATION	Thread lockers for tightening nuts, screws, and bolts of different diameters and metals (including galvanized), subject to constant vibrations. Widely used in the automotive and rail sectors. Resistant to common industry fluids (engine oil, brake fluid, etc.).			Medium-to-high viscosity sealing pastes, certified for use in potable water, air, and gas pipelines. They can replace hemp and other technologies for sealing fittings in civil and industrial systems. Also used for sealing fittings in refrigeration system circuits.				

CONTACT CYANOACRYLATES

Mastikol instant adhesives are single- and two-component products that cure at room temperature, available in different viscosities and temperature resistances. They are used for fast, high-performance bonding of various materials, including rubber, wood, metal, and thermoplastics.

Cyanoacrylate adhesives (also known as ‘instant adhesives’) are easily industrialized in automatic production lines.

The surfaces to be bonded must fit together with minimal gap; the best results are achieved with joints less than 0.2 mm.

MK CA 01

MK CA 20

MK CA 41

MK CA 44

MK CA 200

MK CA 92 DUALFIX

	MK CA 01	MK CA 20	MK CA 41	MK CA 44	MK CA 200	MK CA 92 DUALFIX
TECHNOLOGY	Ethyl one-component					Two-components
FIX TIME	7 ÷ 30 sec.	3 ÷ 15 sec.	3 ÷ 15 sec.	5 ÷ 30 sec.	< 5 ÷ 30 sec.	4 ÷ 8 min.
VISCOSITY	1.200 ÷ 1.800 cps	2 ÷ 6 cps	70 ÷ 120 cps	Thixotropic Gel	80 ÷ 120 cps	Thixotropic Gel
TEMP. RESISTENCE	- 40°C / + 70°C	- 40°C / + 70°C	- 40°C / + 90°C	- 50°C / + 120°C	- 40°C / + 137°C	- 50°C / + 120°C

HOT-MELT ADHESIVES

Mastikol hot-melt adhesives are very versatile and can be formulated for a wide variety of applications and materials, such as metal, wood, and plastic. The type and amount of raw materials used with the copolymers can control residual tack and the final joint strength. In many cases, fillers can be added for special applications. Reactive polyurethanes, sticks, and pressure-sensitive types are all single-component hot-melt adhesives, solvent-free, allowing an almost immediate setting time. The range includes products ideal for bonding rigid laminate panels, footwear, composites, and lightweight interior automotive parts

MK STICK

MASTIKGRIP 9810

THERMORESOL 440-2

THERMORESOL 2299-E

	MK STICK	MASTIKGRIP 9810	THERMORESOL 440-2	THERMORESOL 2299-E	THERMORESOL W 201
TECHNOLOGY	EVA	Reactive Polyurethane	Syntethic resins and polymers		
COLOUR	Black – Amber – Transparent	White	Yellowish	Amber	White
OPEN TIME	20 ÷ 40 sec	45 ÷ 75 sec	> 1 min		
RING & BALL	79 ÷ 82 °C	95 ± 5 °C	125 ± 5°C	130 ± 5 °C	105 ± 5°C
APPLICATION TEMPERATURE	180 ÷ 200 °C	120 ÷ 140 °C	150 – 180 °C		
PACKAGING	Stick (ø 12mm x 200mm)	Cartridge 300 g Pails 20 kg	Free pack		Granules
APPLICATION	Lightweight bonding in the paperboard sector. Bonding of paper used for air filters production.	Heel bonding in footwear sector. Structural assemblies of thermoplastics.	Bonding of substrates with good resistance to thermal reactivation and difficult-to-bond materials such as coated surfaces. Suitable for bonding carpets, rugs, felts, etc. Passes the 'automotive fogging' test at 80°C and 100°C.		Lightweight bonding in the paperboard sector. Bonding of paper used for air filters production.

COMPLEMENTARY PRODUCTS

To complete the offering, Mastikol provides a range of products and accessories, including:

Primers, surface preparers, and crosslinking/accelerating agents, which improve the performance, adhesion, and long-term resistance of the adhesives they are combined with.

Acrylic and butyl double-sided tapes, available in various thicknesses, formats, and sizes. Certified and tested by major industrial companies for their resistance to temperature and atmospheric agents. Compatible with all substrates and easy to use.

Specific **soundproofing and thermal insulation products** for spray or spatula application, useful for reducing sound transmission and heat dissipation in multiple components.

Manual, electric, and pneumatic dispensers for all formats and single- and two-component systems.

Static mixers compatible with all two-component products and different dosing systems.

FIXDUR 100 RC

MK SPAY COAT

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