

ADHESIVES & SEALANTS

FOR AUTOMOTIVE
& TRANSPORTATION



NPT
SEALING AND BONDING SOLUTIONS

www.nptsrl.com

The company

New Polyurethane Technologies (NPT), based in Italy, has been developing and producing high performance adhesives and sealants for over 20 years. From the beginning our goal has been to offer innovative, advanced technological solutions to meet the needs of the global marketplace. NPT has a strong team that works together to deliver the highest value in terms of customer satisfaction, innovation and sustainability.

NPT is supported by a talented and highly motivated research department featuring modern, up-to-date equipment, the latest analytical tools and impressive pilot plant facilities. NPT will work with you to develop tailor-made products that not only improve your products and processes but do it in a way that is both user and environmentally friendly.

In terms of NPT's unique product offerings, consider the example of NPT's patented EcoSiMP technology. This is the technology developed by NPT that enabled us to offer the first silane adhesives and sealants that were both methanol and tin-free. The EcoSiMP technology combines all the advantages of silane chemistry with the added benefit of eliminating tin catalysts and the evolution of methanol during cure. It is the latest example of NPT's cutting edge technology that offers our customers products that are more user friendly with less environmental impact than existing products.

NPT's workforce is highly skilled, committed to safety, product quality and continuous improvement. Our manufacturing plants feature highly automated material handling, drying and mixing systems. These are attributes that combine to ensure that our customers will benefit from new and innovative products produced in a safe and cost effective manner both now and in the future.

NPT is a rapidly growing business serving customers on a global basis. In fact, the vast majority of our business lies outside of Italy. In spite of the distances involved, NPT develops and maintains close relationships with both customers and prospects. We want to grow profitably together with customers or partners that value our quality, service and expertise and appreciate the professional and collaborative manner in which we conduct business. NPT works hard to understand your objectives, know your priorities and deliver what you need with superior quality and service.



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Company with certified quality system

Today NPT is a leader in the production of reactive, high performance bonding and sealing solutions because of the strong foundation built on our key competencies. NPT designs and manufactures its own base polymers. Because we are basic in both polyurethane and silane-modified polymer technologies, NPT has become a leader in the development of unique, high performance bonding and sealing solutions based on these chemistries.

We serve customers in over 50 countries and have become a valuable partner, especially on a private label basis.

Polyurethane:

U-Seal and U-Bond are our trade names for products based upon NPT's polyurethane technology.

Features:

- Very high tear and abrasion resistance
- Fast curing properties
- High joint movement capabilities
- Good shock, peel, load and vibration resistance.
- High dynamic stress absorption
- Good adhesion to a wider variety of substrates
- Paintable

Silyl-Modified Polymer (Hybrid):

SiMP® Seal and S-Bond are our trade names for products based upon NPT's Silyl Modified polymer technology.

Features:

- Very high resistance to UV degradation and weathering
- Excellent primerless adhesion to a wide range of substrates
- Permanently elastic over a wide temperature range
- Paintable
- Outstanding mechanical properties
- Solvent and isocyanate free
- Good mould resistance
- Adhesion to wet surfaces

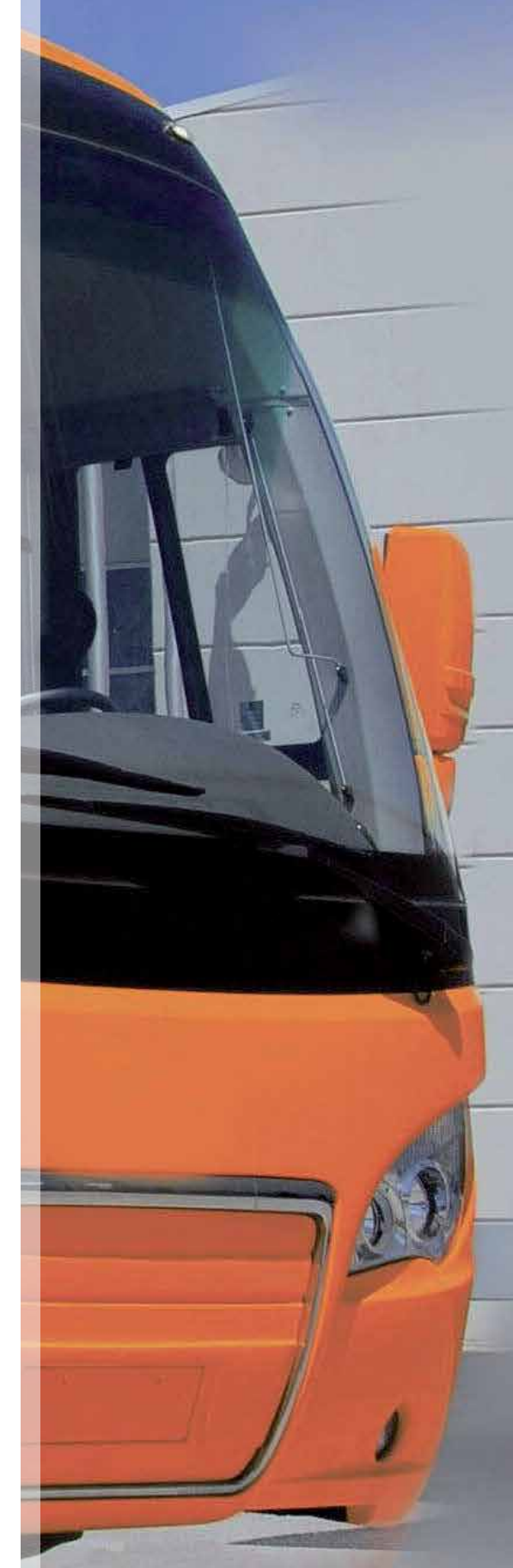
Adhesives and sealants for automotive and transportation

Direct Glazing Adhesives

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U-Seal 207 Plus

Polyurethane direct glazing adhesive sealant

U-SEAL 207 Plus is an excellent non-sag, one-component, flexible and high performance polyurethane adhesive sealant for direct glazing of windshield and bonding of front, side and rear glass used in commercial/industrial vehicles. Suitable for elastic structural bonding (assembly of various materials which are subjected to high thermal and dynamic stress) in the transportation industry.

- One-component solvent free polyurethane
- Non-sag, with minimal stringing
- Low-conductivity. Suitable for use with integrated antenna
- Prevents corrosion in aluminium-body vehicles.

DRIVE AWAY TIME: 3 hours on vehicles fitted with both driver & passenger airbags.



U-Seal 201 Fast

Fast curing polyurethane direct glazing adhesive sealant

U-SEAL 201 Fast is a fast curing, flexible and high performance one-component polyurethane adhesive sealant for direct glazing. It is specifically designed to give a fast and safe drive-away time on vehicles fitted with airbags. Particularly fast skinning and curing time. Purposely designed for bonding windscreens, side and rear windows of passenger cars, trucks, tractors and special vehicles, is also used for bonding fibreglass reinforced plastic elements (roof, side and frontal panels).

- Rapid application and curing
- One-component solvent free polyurethane.
- Non-sag, with minimal stringing
- Low-conductivity. Suitable for use with integrated antenna
- Prevents corrosion in aluminium-body vehicles.

DRIVE AWAY TIME: 2 hours on vehicles fitted with both driver & passenger airbags.



CERTIFICATES AND COMPLIANCES:

TÜV AUTOMOTIVE

(Requirements based on directive FMVSS 208/212)



NOTES

TECHNICAL DATA

• Colours	Black
• Curing rate (1 day at 23°C and 50% r.h.)	3 mm/24h
• Shore A (23°C and 50% r.h.)	55
• Tack-Free Time (23°C and 50% r.h.)	35'
• Tensile strength (ISO 37 DIN 53504)	≥ 7,5 N/mm ²
• Elongation (ISO 37 DIN 53504)	≥ 500 %
• Application Temperature	from +5 to +40 (°C)
• Temperature Resistance (after curing)	-40 / +100 (°C)

Packaging
310 ml cartridge; 400/600 ml sausage;



NOTES

TECHNICAL DATA

• Colours	Black
• Curing rate (1 day at 23°C and 50% r.h.)	4 mm/24h
• Shore A (23°C and 50% r.h.)	55
• Tack-Free Time (23°C and 50% r.h.)	15'
• Tensile strength (ISO 37 DIN 53504)	≥ 9 N/mm ²
• Elongation (ISO 37 DIN 53504)	≥ 300 %
• Application Temperature	from +5 to +40 (°C)
• Temperature Resistance (after curing)	-40 / +100 (°C)

Packaging
310 ml cartridge; 400/600 ml sausage;

U-Seal 205 HM-LC

Ultra-fast, High Modulus & Low Conductivity polyurethane direct glazing adhesive sealant.

U-SEAL 205 HM-LC is an ultra-fast curing, flexible and high performance one-component polyurethane adhesive sealant for the direct glazing of vehicle glass. It is ideal for bonding on vehicles where high shear modulus and non-conductive properties are required. It combines high modulus rigidity, very low volume resistivity and good high-frequency properties, allowing the correct bonding of glass with integrated antenna or additional electrical equipment.

- Rapid application and curing
- One-component solvent free polyurethane.
- Capable of withstanding high dynamic stresses
- Non-sag, with minimal stringing
- Low-conductivity. Suitable for use with integrated antenna

DRIVE AWAY TIME: 1 hour on vehicles fitted with both driver & passenger airbags.



U-Seal 208 BTR

High viscosity polyurethane direct glazing adhesive sealant. Specific for bonding and sealing in BTR

U-SEAL 208 BTR is an excellent high viscosity, one-component, flexible and high performance polyurethane adhesive sealant for the direct glazing of windshield and front, side and rear glass in the Bus, Truck and Railway industry. With its high resistance to UV, weathering and ageing it is designed for the sealing of exposed joints, including joints between lateral glass.

- One-component polyurethane, solvent free.
- Non-sag, with minimal stringing
- High Viscosity and Green strength
- High UV, weathering and ageing resistance



NOTES

TECHNICAL DATA

• Colours	Black
• Curing rate (1 day at 23°C and 50% r.h.)	4 mm/24h
• Shore A (23°C and 50% r.h.)	60
• Tack-Free Time (23°C and 50% r.h.)	15'
• Tensile strength (ISO 37 DIN 53504)	≥ 9 N/mm ²
• Elongation (ISO 37 DIN 53504)	≥ 300 %
• Application Temperature	from +5 to +40 (°C)
• Temperature Resistance (after curing)	-40 / +100 (°C)

Packaging
310 ml cartridge; 400/600 ml sausage;



NOTES

TECHNICAL DATA

• Colours	Black
• Curing rate (1 day at 23°C and 50% r.h.)	3 mm/24h
• Shore A (23°C and 50% r.h.)	60
• Tack-Free Time (23°C and 50% r.h.)	30' - 40'
• Tensile strength (ISO 37 DIN 53504)	≥ 10 N/mm ²
• Elongation (ISO 37 DIN 53504)	≥ 600 %
• Application Temperature	from +5 to +40 (°C)
• Temperature Resistance (after curing)	-40 / +100 (°C)

Packaging
400/600 ml sausage;

SiMP®-Seal 60 HV

Primerless, high green strength and fast curing hybrid polymer direct glazing adhesive sealant.

SiMP®-SEAL 60 HV is a fast curing, flexible and high performance one-component Silyl-terminated polymer (SiMP®) adhesive sealant for the primerless direct glazing of vehicle glass. It is suitable for the bonding of windshields and side or rear windows of cars, buses, trucks, cabins and special vehicles. Ideal for the bonding of fibreglass reinforced plastic elements (roof, side and frontal panels) to structures.

- Primerless adhesion
- Rapid application and curing
- One-component isocyanate solvent free Silyl-terminated polymer (SiMP®).
- Non sag, with short cut-off string. High green strength
- Low-conductivity. Suitable for use with integrated antenna
- Prevents corrosion in aluminium-body vehicle.

DRIVE AWAY TIME: 1 hour on vehicles fitted with both driver & passenger airbags.



CERTIFICATES AND COMPLIANCES:

FMVSS 212 Certified
Euro-NCAP frontal impact sled condition conform
(European New Car Assessment Programme)

U-Activator

Glass activator and cleaner

U-Activator is a silane polymer-based surface cleaner and activator able to remove the contamination of the glass. Its chemical nature also enhances the adhesion promotion properties of U-Primer 130 and the adhesive during the glass replacement contributing to the perfect bonding of the glass. U-Activator is very moisture sensitive. Close the containers immediately after every use to preserve contents.

U-Primer 130

Moisture-curing black primer for glass.

U-Primer 130 is a all-in-one moisture-curing suitable for the application on glass as adhesion promoter and UV barrier as well as paint for bare metal.

Before the use shake the bottle for at least one minute and until the sound of the metal spheres inside the bottle is perceived.

Once opened and used for a first time, being a product that is highly reactive with moisture, the container must be tightly closed after use. Shake again before any re-use.



NOTES

TECHNICAL DATA

• Colours	Black
• Curing rate (1 day at 23°C and 50% r.h.)	3,5 mm/24h
• Shore A (23°C and 50% r.h.)	60
• Tack-Free Time (23°C and 50% r.h.)	15'
• Tensile strength (ISO 37 DIN 53504)	≥ 3,9 N/mm ²
• Elongation (ISO 37 DIN 53504)	≥ 350 %
• Application Temperature	from +5 to +40 (°C)
• Temperature Resistance (after curing)	-40 / +100 (°C)

Packaging
290 ml cartridge; 400/600 ml sausage; 200 lt drum;

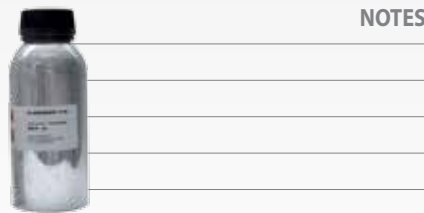


NOTES

TECHNICAL DATA

• Colours	Transparent
• Solid content	35 %
• Drying time (23° C and 50% r.h.)	10'
• Application Temperature	from +10 to +35 (°C)
• Temperature Resistance (after curing)	-40 / +90 (°C)

Packaging 30/100/250/1000 ml alu bottle;



NOTES

TECHNICAL DATA

• Colours	Black
• Solid content	35 %
• Drying time (23° C and 50% r.h.)	10'
• Application Temperature	from +10 to +35 (°C)
• Temperature Resistance (after curing)	-40 / +90 (°C)

Packaging 30/100/250/1000 ml alu bottle;

Windshield Replacement Procedure

These guidelines advise to perform a correct and safe replacement of windshields on different types of vehicles, cars and industrial/commercial vehicles.

Urethane is the only adhesive technology used in high-performance auto-glass bonding because is capable of withstanding high levels of deformation with little loss of adhesive strength and performance. NPT Urethanes are tough and abrasion resistant, formulated to be durable enough to withstand long-term weather exposure, becoming a structural part of the vehicle body.

VEHICLE BODY PREPARATION – CAR BODY FLANGE

First step after the removal of the old glass is the preparation of the car body.

Manufacturers protect vehicle pinchwelds from corrosion by covering bare metal with e-coat and/or paint. In substitution, auto-glass technicians can inadvertently expose bare metal on the pinchweld during glass removal. Exposing bare metal to oxidants (air and water) causes corrosion.

It is important to verify if and where these scratches have occurred and apply the U-Primer 130. This will prevent corrosion.

Any eventual contamination must be removed. If all the paint and e-coat is removed down to bare metal, U-Primer 130 must be used.

New urethane adhesive bonds best to freshly cut, uncontaminated and well-bonded original urethane.

Trim the urethane adhesive down to the recommended 1 to 2 mm final thickness just prior to installing the new glass. The new bead of urethane can then be applied directly to the freshly trimmed bead of original urethane.

Glass preparation: cleaning and activating the windscreen

New glass is normally contaminated by chemical substances used in its production. To remove contamination, proper surface preparation is critical. Make sure the bonding surface is free of all contamination. Examine the bond area of the glass for visible contamination such as stickers, tape, dust, dirt and fingerprints. Remove contaminants and clean with U-Activator and leave to dry for approximately 10 minutes. This can be very depending from the environmental conditions.

Glass preparation: priming the windscreen

Before use, shake the container of U-Primer 130 well, until you hear that the small metal bearings are moving freely. Apply the U-Primer 130 in a uniform manner on the glass surface using the special applicator.

Leave to dry for approximately 5-10 minutes. Drying time can vary depending from the environmental conditions.

SEALANT APPLICATION AND GLAZING

Before using the adhesive gun, check once again that all has been done to guarantee a satisfactory repair. The following must be taken into consideration:

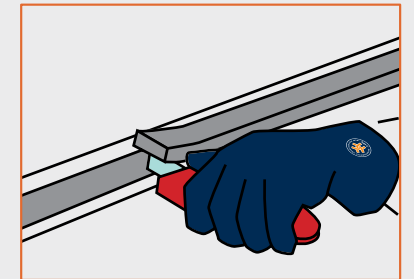
1. Begin at the centre of the lower glass border.
2. Apply a triangular bead of the PU adhesive to the edge of the glass or the windscreen body flange, using the specially shaped nozzle. A round bead must be avoided.
3. While applying the urethane adhesive, keep the gun at a 90° angle with respect to the glass surface.
4. The end of the adhesive beading must overlap the initial part by approx. 20 mm in order to avoid infiltrations.
5. The new windscreen must be placed in position within 8-10 minutes. Apply pressure around the entire perimeter of glass to ensure good contact with the adhesive bead. Keep vehicle doors and side windows open throughout glass installation.
6. Refit trims and mouldings. Remove any excess adhesive before it hardens.

SAFETY PRECAUTIONS

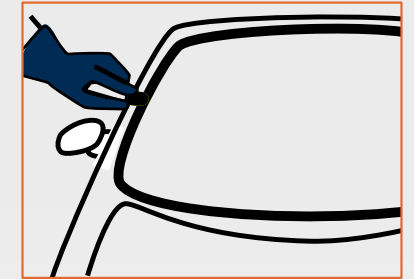
This safety information is provided in good faith, but does not replace the worker's obligation to be familiar with all products, Material Safety Data Sheets (MSDS) in the Workplace Hazardous Materials Information Systems to exercise due care and caution in auto-glass installation, materials handling and equipment operation.



Remove all decorative trims, mouldings



Trim the old urethane down to 1 or 2 mm



Treat scratches on metal with U-Primer 130



Remove contamination with U-Activator



Apply U-Primer 130 in a uniform manner

U-Seal 500

Polyurethane multipurpose sealant and elastic adhesive.

U-Seal 500 is a high performance, dual purpose adhesive and sealing compound with permanent elasticity. It bonds well to a wide variety of substrates and enables permanent elastic sealing with high adhesive strength between most common metals, painted surfaces, GRP, PVC and other rigid plastics.

- One-component polyurethane
- Permanently flexible and stable
- Bonds and seals at the same time
- Over-paintable



U-Seal 501

Fast curing Polyurethane elastic adhesive and sealant for vehicle body construction and repair.

U-SEAL 501 is a one-part, very fast curing, polyurethane elastic adhesive and sealant designed for car body construction and repair. Specifically developed to meet the car industry requirements, it is characterised by an initial controlled viscosity that makes the product easy to brush and to smooth, particularly in those applications where a thin layer or bead of adhesive is required. Once cured, the products reach high levels of hardness that gives an original equipment appearance to the material.

- One-component polyurethane
- Very fast skinning and curing time
- Easy to brush and/or smooth
- Permanently flexible and stable
- Bonds and seals at the same time
- Over-paintable in a short time



NOTES

Technical data

• Colours	White, Grey, Black
• Curing rate (1 day at 23°C and 50% r.h.)	3 mm/24h
• Shore A (23°C and 50% r.h.)	40
• Tack-Free Time (23°C and 50% r.h.)	50'
• Elastic modulus at 100% (ISO 37 DIN 53504)	≥ 0,8 N/mm ²
• Tensile strength (ISO 37 DIN 53504)	≥ 1,8 N/mm ²
• Elongation (ISO 37 DIN 53504)	≥ 450 %
• Application Temperature	from +5 to +40 (°C)
• Temperature Resistance (after curing)	-40 / +90 (°C)

Packaging
310 ml cartridge; 400/600 sausage; 200 lt drum;



NOTES

TECHNICAL DATA

• Colours	White, Grey, Black
• Curing rate (1 day at 23°C and 50% r.h.)	4 mm/24h
• Shore A (23°C and 50% r.h.)	52
• Tack-Free Time (23°C and 50% r.h.)	25'
• Tensile strength (ISO 37 DIN 53504)	≥ 2,0 N/mm ²
• Elongation (ISO 37 DIN 53504)	≥ 250 %
• Application Temperature	from +5 to +40 (°C)
• Temperature Resistance (after curing)	-40 / +90 (°C)

Packaging
310 ml cartridge; 400/600 sausage; 200 lt drum;

Brushable Seam Sealer

One-part rubber based seam sealer

Brushable Seam Sealer is a one-part, thixotropic, rubber based sealant in solvent dispersion for brush applications. Once extruded, it cures fast to form an elastic sealing compound, providing an excellent barrier against dust, water and humidity. It is ideal for joint filling in the car body such as on flanges and welded parts in the front and rear of the vehicle. Easy to apply by soft or hard brush or by spatula. It can be over-painted.

- One-component.
- Fast curing
- Easy to work, smooth and brush.
- Over-paintable



NOTES

TECHNICAL DATA

• Colours	Grey
• Solid content	72 %
• Application Temperature	from +5 to +40 (°C)
• Temperature Resistance (after curing)	-40 / +90 (°C)

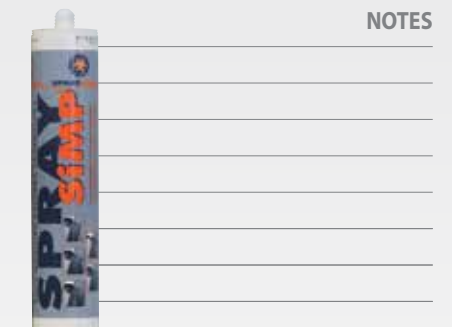
Packaging 1 Kg tin;

Spray SiMP®

One-part hybrid polymer sprayable adhesive and sealant.

SPRAY-SiMP® is a low viscosity, Silyl-terminated polymer sealant specific for applications by spray or by paintbrush, to seal seams and welded joints in the automotive industry and in the construction and repair of coaches, car-bodies, railway carriages, industrial vehicles and containers. It has excellent primerless adhesion to metals, painted surfaces, aluminium, PVC, fiberglass reinforced plastic, ABS, polycarbonate and plastic materials in general.

- Free of isocyanates and solvents. Odourless.
- Application by spray or by paintbrush
- No bubble formation
- Protects against corrosion; does not attack support surfaces
- Excellent weathering and UV resistance
- Over-paintable wet on wet (preliminary tests recommended)



NOTES

TECHNICAL DATA

• Colours	Grey, Beige
• Curing rate (1 day at 23°C and 50% r.h.)	2,5 mm/24h
• Shore A (23°C and 50% r.h.)	50/55
• Tack-Free Time (23°C and 50% r.h.)	30'
• Elastic modulus at 100% (ISO 37 DIN 53504)	≥ 3,0 N/mm ²
• Tensile strength (ISO 37 DIN 53504)	≥ 3,5 N/mm ²
• Elongation (ISO 37 DIN 53504)	≥ 100 %
• Application Temperature	from +5 to +40 (°C)
• Temperature Resistance (after curing)	-40 / +80 (°C) for briefs points at +120 (°C)

Packaging 290 ml cartridge;

SiMP® Seal 30

One-part hybrid polymer **multipurpose elastic sealant**.

SiMP®-Seal 30 is a one-part Silyl-Terminated Polymer (SiMP®) multipurpose elastic sealant suitable for virtually all application in industry and general assembly. It bonds to a wide range of materials including metals, sheet steel (galvanised, plated and painted), untreated or anodised aluminium, brass, copper, glass, GRP and many rigid plastics as found in body work for vehicles, bus, truck, rail-coach, cabin, trailer, recreational vehicles and general fabrication assembly where a tough flexible rubber joint or a good elastic adhesive is required.

- Isocyanates and solvents free. Odourless.
- No bubble formation
- Primer-less adhesion on almost every substrate
- Excellent weathering resistance, colour stability and UV resistance
- Easy tooling with excellent surface appearance
- Over-paintable



SiMP® Seal 55

One-part hybrid polymer **elastic adhesive and sealant**.

SiMP®-Seal 55 is a one-part Silyl-Terminated Polymer (SiMP®) multipurpose elastic sealant suitable for virtually all application in industry and general assembly. It bonds to a wide range of materials including metals, sheet steel (galvanised, plated and painted), untreated or anodised aluminium, brass, copper, glass, GRP and many rigid plastics as found in body work for vehicles, bus, truck, rail-coach, cabin, trailer, recreational vehicles and general fabrication assembly where a tough flexible rubber joint or a good elastic adhesive is required.

- Isocyanates and solvents free. Odourless.
- No bubble formation
- Primer-less adhesion on almost every substrate
- Excellent weathering resistance, colour stability and UV resistance
- Easy tooling with excellent surface appearance
- Vibration and shock/impact resistant
- Over-paintable



NOTES

TECHNICAL DATA

• Colours	White, Grey, Black
• Curing rate (1 day at 23°C and 50% r.h.)	3 mm/24h
• Shore A (23°C and 50% r.h.)	35 - 40
• Tack-Free Time (23°C and 50% r.h.)	35' - 40'
• Elastic modulus at 100% (ISO 37 DIN 53504)	≥ 1,2 N/mm ²
• Tensile strength (ISO 37 DIN 53504)	≥ 2,8 N/mm ²
• Elongation (ISO 37 DIN 53504)	≥ 450 %
• Application Temperature	from +5 to +40 (°C)
• Temperature Resistance (after curing)	-40 / +100 (°C)

Packaging
290 ml cartridge; 400/600 ml sausage; 200 lt drum;



NOTES

TECHNICAL DATA

• Colours	White, Grey, Black
• Curing rate (1 day at 23°C and 50% r.h.)	≥ 3 mm/24h
• Shore A (23°C and 50% r.h.)	50
• Tack-Free Time (23°C and 50% r.h.)	15'
• Elastic modulus at 100% (ISO 37 DIN 53504)	≥ 1,7 N/mm ²
• Tensile strength (ISO 37 DIN 53504)	≥ 2,8 N/mm ²
• Elongation (ISO 37 DIN 53504)	≥ 270 %
• Application Temperature	from +5 to +40 (°C)
• Temperature Resistance (after curing)	-40 / +100 (°C)

Packaging
290 ml cartridge; 400/600 ml sausage; 200 lt drum;

SiMP® Seal 57 HT

One-part hybrid polymer **assembly adhesive for elastic structural bonding**.

SiMP®-Seal 57 HT is a one-part, high modulus, Silyl-Terminated Polymer (SiMP®) assembly elastic adhesive, with high viscosity and high initial tack and high green strength. It is suitable for the assembly of side, roof and frontal panels to structures of buses, trucks and special vehicles. As a powerful and versatile elastic structural adhesive, it bonds to a wide range of materials including metals, glass, GRP, and many rigid plastics where a powerful, vibration and shock resistance adhesion or a tough flexible rubber joint is required.

- Isocyanates and solvents free. Odourless.
- No bubble formation
- Primer-less adhesion on almost every substrate
- Good weathering resistance, colour stability and UV resistance
- Vibration and shock/impact resistant



CERTIFICATES AND COMPLIANCES:

EN 1186, EN 13130, CEN/TS 14234
(Plastic materials in contact with foodstuff)

Professional applicators

T-Gun Cartridge

Manual gun for cartridges.

T-Gun Cartridge HV

Manual gun for High Viscosity products cartridges.

T-Gun Foilbag 400

Manual gun for sausages up to 400ml and cartridges.

T-Gun Foilbag 600

Manual gun for sausages up to 600ml and cartridges.

T-Gun Air Foilbag 600

Pneumatic gun for sausages up to 600ml.

T-Gun Air Cartridge+ Foilbag 400

Pneumatic gun for sausages up to 400ml and cartridges.

T-Gun Air Cartridge+ Foilbag 600

Pneumatic gun for sausages up to 600ml and cartridges.



NOTES

TECHNICAL DATA

• Colours	White, Grey, Black
• Curing rate (1 day at 23°C and 50% r.h.)	2,5 mm/24h
• Shore A (23°C and 50% r.h.)	60
• Tack-Free Time (23°C and 50% r.h.)	15'
• Elastic modulus at 100% (ISO 37 DIN 53504)	≥ 3 N/mm ²
• Tensile strength (ISO 37 DIN 53504)	≥ 3,2 N/mm ²
• Elongation (ISO 37 DIN 53504)	≥ 120 %
• Application Temperature	from +5 to +40 (°C)
• Temperature Resistance (after curing)	-40 / +100 (°C)

Packaging
290 ml cartridge; 400/600 ml sausage; 200 lt drum;



New Polyurethane Technologies
Sealing and Bonding Solutions

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NPT
SEALING AND BONDING SOLUTIONS

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