

Elastic **NP 1®** Automotive Adhesive

PRODUCT CHARACTERISTIC

- ✓ SMP (silane modified polymer) based adhesive
- ✓ Curing by humidity in the air
- ✓ One-component
- ✓ Ready-to-use

FEATURES

- ✓ Waterproof
- ✓ High modulus
- ✓ High mechanical features and strong adhesion
- ✓ High initial tack
- ✓ Paintable
- ✓ Bonds without primer on almost all materials used in automotive and marine industry
- ✓ Excellent UV, weather and to aging resistance
- ✓ Bonds also with slightly moist surfaces
- ✓ Solvent- and isocyanate-free and odorless
- ✓ Does not cause any corrosion on metals
- ✓ No loss of volume and bubble formation

AREAS OF APPLICATIONS

- ✓ It is used in the assembly of vehicle glasses, industrial vehicle and bodywork construction.
- ✓ It can be applied in ventilation, equipment assembly, container and caravan manufacturing, ship and boat manufacturing in maritime, and sheet metal joints in wagon manufacturing.
- ✓ It is used for bonding surfaces such as sheet metal, aluminum, stainless steel, lead, copper, brass, painted sheet metal, iron, ceramic, glass, wood used in the automotive and industrial sector.
- ✓ It is suitable for indoor and outdoor use that needs high modulus adhesive in the building and construction industry.

METHOD OF USE

Preparation

The application surface must be clean, grease- and dust-free.
If necessary, MEK or alcohol can be used for degreasing and cleaning the application surface.

Primer

It is user's responsibility to check the compatibility of the product for their application.
If necessary, technical support could be supplied about primers for specific applications.

Application

Air/charged gun is recommended for use with the **NP1 MS Automotive Adhesive**. It is also suitable for use with a manual gun. It can be applied with the **MayGun** cartridge gun or the **MemoGun** sausage gun.

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Open time should be taken into account in the parts to be joined. It should be put together in an average of 20 minutes. This time may vary depending on the ambient temperature and humidity.

Using as windshield adhesive:

When used in windshield bonding, the use of ceramic coated glasses is recommended. If the windshield is not ceramic coated, a UV primer is recommended to increase UV resistance.

For the best adhesion surface, the product should be applied at a certain thickness. For correct application, cut the nozzle supplied with the product into a triangle shape and apply by taking into account the size of the glass cavity (Figure 1). During application, the cartridge/sausage gun should be applied on the glass by keeping it at 90° right angle.

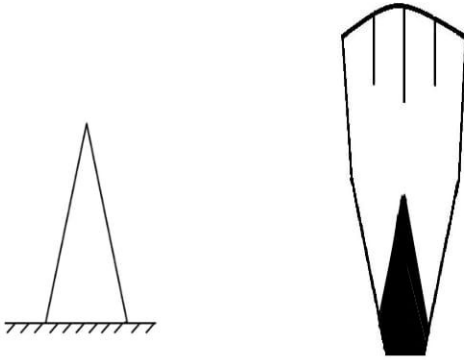


Figure 1: Triangle application and nozzle cutting shape

General usage in automotive and other sectors:

For sealing – It is recommended to apply in the form of strips of appropriate thickness and width in cases where it is used in bodywork and sheet metal joints in the automotive industry, in marine, caravan and container construction. Application thickness should be at least 2mm.

For gluing – It can be applied as dots or strips in accordance with the application place and shape.

Cleaning

Adhesive residue can be cleaned with alcohol or white spirit on application areas or on tools while it has not cured yet.

It can be removed only mechanically after cured.

Painting

Paintable with most water- and solvent-based paints.

Paint can be applied after the skin formation is done. The surface first must be cleaned, if necessary, before it can be painted.

Alkyd paints require an extended drying time.

Since there are many different paint types on the market, it is the user's responsibility to check the compatibility of the paint with the product.

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LIMITATIONS

No adhesion on PE, PP, PA and Teflon®.
The adhesion and compatibility with plastic materials should be tested.
Proper ventilation during processing and hardening is important.
Opened cartridges and sausages should be consumed as quickly as possible.

PACKING AND COLORS

Cartridge: 25 cartridges of 290 ml/box - 80 boxes / pallet
White Ral 9016, Gray Ral 7040, Black Ral 9017
Sausage: 20 sausages of 600 ml/box - 50 boxes / pallet
White Ral 9016, Gray Ral 7040, Black Ral 9017

HEALTH AND SAFETY

For health and safety instructions please refer to safety data sheet which is available on request.

TECHNICAL SPECIFICATION

Base	Silane modified polymer
Curing system	By humidity in the air
Number of components	1
Skin formation time*	30min
Tack-free time*	10min
Open time*	20min
Curing speed*	3.0mm / 24h
Density	1.50 g/cm ³ ± 0.02
Solvent & isocyanate content	0%
Shore A hardness (ISO 868)	55
Modulus at 100% elongation (ISO 8339)	1.18 N/mm ²
Elongation at break (ISO 8339)	265%
Modulus at break (ISO 8339)	1.42 N/mm ²
Processing temperature	+5 - +35°C
Shelf life (with original packing in dry conditions between +5 - +25°C)	9 months

* Technical data are approximately provided for +23°C and 50% relative humidity.

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This technical data sheet replaces all previous editions. All advices, figures and safety directives in this document are based on our careful research and last laboratory reports. Although, the document was compiled with the greatest care, because of a wide variety of different substrates and applications and possible different processing conditions **YOLDAS ENDUSTRI** does not accept responsibility for obtained results. Users need to ensure that the product is suitable for their application before use. Our general sales conditions apply. **YOLDAS ENDUSTRI** reserves all rights to modify the products without prior notice.