



Technical Data Sheet SiMP Clear  
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# SiMP Clear

## One-part SiMP clear elastic adhesive and sealant



### DESCRIPTION

SiMP Clear is a one-component, gun-grade, non-sag SiMP – Silyl Modified Polymer clear elastic adhesive and sealant. It cures under the influence of atmospheric moisture to form a high performance compound with permanent elasticity and high resistance to ageing and weathering. Solvent- and isocyanate-free.

#### Certified according to:

EN 15651-1/3/4 TYPE F INT-EXT  
EMICODE EC 1<sup>PLUS</sup> protocol  
EUROFINS IAC GOLD protocol  
VOC Emission class label A+

#### Compliant to:

LEED iEQc 4.1; SCAQMD Rule 1168; BAAQMD Reg 8 Rule 51  
CARB VOC levels regulation

### AREAS OF APPLICATION

SiMP Clear is a versatile and performant clear adhesive and sealant for different application in house interior fitting, construction finishing, furniture and industrial assembly where a clear bond or seal is necessary. Suitable for transparent elastic bonding between metal, plastic, glass and other materials, joints between window or door frames, mirror and glass assembly.

SUITABLE FOR INDOOR AND OUTDOOR BONDING. SUITABLE FOR INDOOR SEALING ONLY. WITH PROLONGED UV RADIATION PRODUCTS CAN DISCOLOR AND BECOME LESS UV STABLE

### FEATURES

- Clear transparency
- Environmentally friendly – Free of isocyanates and solvents
- No hazard symbol required
- No bubble formation - Odorless
- Bonds and seals at the same time
- Permanently elastic
- Easy to gun with excellent tooling consistency



- Exceptional thixotropy, non-sagging, short cut off string
- No change in volume, no shrinkage
- Good primerless adhesion on all typical construction and industrial materials
- Non-staining on concrete and porous materials

## TECHNICAL DATA

<b>Appearance</b>	Non-sag thixotropic paste
<b>Color</b>	Clear
<b>Chemical nature</b>	SiMP Silyl-Modified Polymer
<b>Curing Mechanism</b>	Moisture-curing
<b>Curing through volume</b> [mm] (NPT Method 07) (24h - 23°C and 50% RH)	ca. 3.0
<b>Hardness Shore A</b> (DIN 53505)	ca. 44
<b>Density</b> [g/cm <sup>3</sup> ] (NPT method 06) (23°C and 50% RH)	ca. 1.07
<b>Skin time</b> [min] (NPT Method 17) (23°C and 50% RH)	ca. 45
<b>Elastic modulus at 100%</b> [N/mm <sup>2</sup> ] (ISO 37 DIN 53504)	ca. 1.6
<b>Tensile strength</b> [N/mm <sup>2</sup> ] (ISO 37 DIN 53504)	ca. 2.9
<b>Elongation at break</b> [%] (ISO 37 DIN 53504)	ca. 220
<b>Application temperature</b> [°C]	From +5 to +40
<b>Temperature Resistance</b> [°C]	From -40 to +100, up to +120 for short term

## APPLICATION

The surfaces to be treated should be perfectly clean, dry and free from dust and grease. It is necessary to treat the bonding surface according to NPT application guidelines, eventually using a specific CLEANER or ACTIVATOR from NPT range. It is advisable to carry out preliminary adhesion tests on the support.

Apply the plastic nozzle and cut it at an angle according to the desired bead thickness and profile. Fit the foilpack or cartridge into a manual or pneumatic air operated gun (provided with telescopic piston) and extrude the adhesive/sealant carefully preventing air entrapment. Once opened, packs should be used up within a relatively short time. The optimum operating temperature for both substrate and sealant is between 15°C and 25°C.



Tooling and finishing must be carried out within the tack-free time of the sealant. SiMP Clear can be over-painted. The paint must be tested for compatibility by carrying out preliminary trials. Attention must be observed with the use of alcohol or alkyd-resin since they may interfere with the curing process of the sealant and reduce the drying time of the paint itself. It should be understood that the hardness and film thickness of the paint may impair the elasticity of the sealant and lead to cracking of the paint film.

Do not cure in the presence of curing silicone sealants. Avoid contact with solvent cleaners during cure. When applying sealant, avoid air-entrapment. Since system is moisture-cured, permit sufficient exposure to air. Bonded elements may require additional holding or support during curing period.

## **CLEANING OF EQUIPMENT AND PERSONAL PROTECTIVE MEASURES**

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Clean the tools used with acetone or solvent. When the adhesive has not yet hardened, it can be removed using paper or a cloth. Once hardened, the product can only be removed mechanically. Avoid skin contact by using latex, rubber or polyethylene gloves. If it comes in contact with the skin, remove immediately and wash with soap and water.

## **PACKAGING**

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PE cartridge 290ml – 12 pieces per box  
Foilpack 400ml – 12 pieces per box  
Foilpack 600ml – 20 pieces per box

## **STORAGE AND SHELF LIFE**

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SiMP Claer can be stored for 12 months in its original packaging (unopened container) between 10°C and 25°C in a cool, dry place. The storage temperature should not exceed 25°C for extended periods of time. Keep away from wet areas, direct sunlight and heat sources.

## **GENERAL INFORMATION**

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The information contained in this technical data sheet is to the best of our knowledge correct, being based on our knowledge and experience to date and cannot be used as a guarantee, due to the various different materials present on the market and the fact that the application conditions are not under our direct control and supervision. NPT srl, however, guarantees constant product quality. NPT srl, has the right to modify or up-date this technical data sheet according to requirements. Customers are kindly requested to verify that they are in possession of the latest version.

**ALWAYS CONSULT THE MATERIAL SAFETY DATA SHEET BEFORE USING THE PRODUCT**