

# ARMOR METAL SEALANT

## HIGH TEMPERATURE PU METAL SEALANT

### Product Description:

**Armor Metal Sealant** is a one-component, high-modulus polyurethane sealant that cures on exposure to atmospheric humidity. It possesses excellent adhesion to sheet iron, aluminum, stainless steel, lead, copper, ceramic, glass, wood and various plastic materials.

### Features & Benefits:

- Permanently flexible
- Non-sag consistency - Exceptional thixotropy
- Non-sticky / does not pick up dirt
- High mechanical resistance
- Improved storage stability
- Easy to gun, can be easily smoothed
- Over-paintable

### Application Areas:

- Body construction of cars, containers, caravans etc.
- Sealing and bonding of ventilation ducts, gutters and spouts etc.
- Sealing of sheet metal seams
- For vibration reduction in all type of sheet metal assembly works
- Sealing against water, air, gas and dust.

### Instructions:

- Joint surfaces must be dry, clean and free of all contamination. Glass, metal and other non-porous surfaces must be free of any coatings and wiped clean with solvent.
- Cut opens the cartridge, screw on nozzle and cut off tip at desired angle. Take off the aluminum cover at the bottom of the cartridge. Insert cartridge in gun and apply the sealant bubble-free continuously into the joint.
- Fill the joint completely. Smoothen it by pressing with a spatula or similar apparatus.

### Consumption (Approx.):

Joint width	15 mm	20 mm	25 mm	30 mm	35 mm
Joint Depth	8 mm	10 mm	12 mm	15 mm	15 mm
Joint length /600 ml	5 meters	3 meters	2 meters	1,3 meters	1,1 meters

**Surface Preparation:**

Following cleaning procedure and materials are recommended:

Glass	Degrease with alcohol or MEK
Aluminium, light alloys and stainless steel	Degrease with alcohol or MEK
Other Metals	Lightly abrade then degrease as above
Wood	Lightly abrade surface then remove dust
Plastics	Degrease using an agent recommended by plastics manufacturer
Concrete and other alkaline Surfaces	Brush and remove dust

**Standards:**

Meets or exceeds the requirements of the following specifications:

- The requirements of VOC content specifications in LEED credit EQc4.1 “Low-emitting products” of SCAQMD rule 1168.
- The French VOC requirements for class A+
- CE marked for façade elements and pedestrian walkways.

**Restrictions:**

- It must not be used in totally confined spaces where sealant cannot cure due to lack of atmospheric moisture.
- Do not use in applications where continuous water immersion is possible.
- Do not apply on frozen or wet surfaces or through standing water.
- Prolonged exposure to direct sunlight can cause discoloring,
- Avoid application below 5 °C and above 40 °C.

**Storage and Shelf Life:**

- 12 months if stored in its original package, away from direct sunlight and moisture, between +10 °C and +25 °C

**Safety and Disposal:**

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and

other safety-related data.

**Properties:**

BEFORE CURING	
Basis	Polyurethane
Consistency	Thixotropic
Curing Mechanism	Moisture Curing
Density	1.18±0,03 /ml
Tack free time	20-25 min. (23°C and 50% R.H)
Curing Rate	Min. 2,5 mm/day (23°C and 50% R.H)
Sagging	0 mm (EN ISO 7390)
Temperature Resistance	-40°C to +90°C
Application Temperature	+5°C to +40°C

AFTER CURING	
Hardness Shore A	45-50 After 28 days (ASTM C661)
Paintibility	Yes *
<b>MECHNANICAL PROPERTIES (ISO 8339)</b>	
Elongation at break	≥ 120% (ISO8339)
E100 Modulus (23 °C)	0.40-0.45 N/mm <sup>2</sup> (ISO8339)
<b>MECHNANICAL PROPERTIES (ASTMD412)</b>	

Elongation at break	≥%400 (ASTM D412)
Tensile Strength	1.5-2.0 N/mm2 (ASTM D412)

Product:

Product Type	Volume	Package
White/Black/Grey	310 ml	12
White/Black/Grey/Brown/Golden Oak (Sausage)	600 ml	12



**ARMORSIL MANUFACTURING INCORPORATION**

Sede legale: VIA Montello 48, INT #3 Pordenone, Italy. 33170. Tel: + 30256365-16

[www.armorsil.com](http://www.armorsil.com), [info@armorsil.com](mailto:info@armorsil.com), [sales@armorsil.com](mailto:sales@armorsil.com)

#### Limited Warranty

All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty either expressed or implied. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any supplied materials relieves the user of the obligation to read and follow the warnings and instruction for each product as set forth in the current Technical Data Sheet, product label and Safety Data Sheet prior to product use away.

Armorsil Manufacturing supplies products that comply with the properties shown on the current datasheets. In the unlikely event that products supplied are proved not to comply with these properties, then we will replace the non-compliant product or refund the purchase price. Armorsil Manufacturing does not warrant or guarantee the installation of the products as it does not have control over the installation or end use of the products. Any suspected defects must be reported to Armorsil Manufacturing in writing within seven working days of being detected.

Armorsil Manufacturing. Makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties express or implied. Neither seller nor Armorsil Manufacturing shall be liable to the buyer or any third person for any injury, loss or damages of any sort including remote or consequential damages, down time, or delay directly or indirectly resulting from use of or inability to use the product. . The information contained in the latest data sheet supersedes all previously published editions. Visits to site by Armorsil personnel do not constitute supervisory responsibility. Armorsil reserves the right to alter the information contained in this datasheet without prior notice