



# ARMOR PU SEALANT

## CONSTRUCTION PU SEALANT

EXPANSION JOINT SEALANT

### PRODUCT DESCRIPTION

**Armor PU Sealant** is a one-component, medium-modulus polyurethane sealant that cures on exposure to atmospheric humidity. It possesses excellent adhesion to all typical construction materials such as cement based materials, brick, ceramic, glass, wood, galvanized and painted sheet iron and various plastics.

### FEATURES AND BENEFITS

- Possesses permanent elasticity
- 25% movement capability
- No surface tackiness after full cure.
- Do not pick up dirt
- No shrinkage
- Cures bubble-free
- Enhanced storage stability
- No sagging – Thixotropic
- Can be applied with hand gun and tooled easily
- Paintable

### APPLICATION AREAS

- Expansion joints between many different construction materials
- Movement and connection joints in floors
- Indoor and outdoor applications for pedestrian and traffic areas
- Joints between prefabricated construction materials
- Sealing and bonding of ventilation ducts, gutters and spouts etc.
- For expansion joints between pre-cast concrete panels

### INSTRUCTIONS

- Before application, be sure that joint surfaces are clean, dry and free of all contamination
- Apply sealant evenly, If necessary, use masking tape and remove the tape while the sealant is still soft
- Joint width/depth ratio should be 2:1 (Table 1)
- If necessary, use back up material to adjust joint depth
- Sealants should adhere to only two surfaces of the joint: Use backer rods and bond breakers to facilitate.

### CONSUMPTION (APPROX.)

Joint width	15 mm	20mm	25mm	30mm	35mm
Joint depth	8mm	10mm	12mm	15mm	15mm
Joint length/600ml	5meters	3meters	2meters	1.3meters	1.1 meters

### SURFACE PREPARATION

Following cleaning procedure and materials are recommended:

Glass	Degrease with alcohol or MEK
Aluminum, light alloy 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





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### 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 EN 15651 for façade applications.
- BS 6920 for the metallic water soluble impurities.

### 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	
Polyurethane Consistency	Thixotropic Curing Mechanism
Moisture Curing Density	1.20±0.03 g/ml
Tack free time	30-70 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



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AFTER CURING	
Hardness Shore A	35-40 After 28 days (ASTM C661)
Paintability	Yes *
Elastic Recovery	≥ 70% (ISO 7389)
<b>Glass-Glass</b>	
Elongation at break	≥ 100% (ISO8339)
E100 Modulus (23°C)	0.35-0.40 N/mm2 (ISO8339)
E100 Modulus (-20°C)	≤ 0.60 N/mm2 (ISO8339)
<b>DUMBLE TEST</b>	
Elongation at break	≥%600 (ASTM D412)
Tensile Strength	1.5-2.0 N/mm2 (ASTM D412)

### 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.

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### PRODUCT

<b>Product Type</b>	Grey (Sausage)
<b>Volume</b>	600 ml
<b>Package</b>	12