

ARMOR P635 PU SEALANT

CONSTRUCTION PU SEALANT

Product Description:

Armor P635 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 & 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	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 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	
Basis	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

AFTER CURING

Hardness Shore A 35-40 After 28 days (ASTM C661)

Paintibility Yes *

Elastic Recovery $\geq 70\%$ (ISO 7389)

Glass-Glass

Elongation at break $\geq 100\%$ (ISO8339)

E100 Modulus (23 °C) 0.35-0.40 N/mm² (ISO8339)

E100 Modulus (-20 °C) ≤ 0.60 N/mm² (ISO8339)

DUMBLE TEST

Elongation at break $\geq 600\%$ (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 (Sausage)	600 ml	12



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