

P235

POLYURETHANE SEALANT CONSTRUCTION

1 – DESCRIPTION

Construction PU Sealant is a one-component, low-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.

2 – PROPERTIES

- Possesses permanent elasticity
- No sagging – Thixotropic
- No surface tackiness after full cure.. Do not pick up dirt
- No shrinkage
- Enhanced storage stability
- Can be applied with hand gun and tooled easily
- Paintable
- Cures bubble-free
- 25 % movement capability
- Conforms to BS 6920 for the metallic water soluble impurities and is suitable for use in drinking water system
- **Conforms to the requirements of VOC content specifications in LEED credit EQc4.1 “Low-emitting products” of SCAQMD rule 1168.**
- **Meets the French VOC requirements for class A+**
- **CE marked for EN 15651 for façade and pedestrian walkway applications.**

3 - APPLICATIONS

- 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
- Installation of PVC window jambs.
- Sealing and bonding of ventilation ducts, gutters and spouts etc.
- For expansion joints between pre-cast concrete panels
- Meets the requirements of **ISO 11600 F 25 LM**

4 - 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

Table 1

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

5- STORAGE AND SHELF LIFE

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

6- PACKAGING

Product	Volume	Package
White / Black / Grey	310ml	12
White / Black / Grey(Sausage)	600ml	12
White / Black / Grey (Reusable Sausage)	300ml	12

7- RESTRICTIONS

- Avoid application below 5 °C and above 40 °C.
- Do not apply on frozen or wet surfaces or through standing water.

8- TECHNICAL PROPERTIES

BEFORE CURING

Basis	: Polyurethane
Consistency	: Thixotropic
Curing Mechanism	: Moisture Curing
Density	: 1,20±0,03 g/ml
Tack free time	: 20-70 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)
Paintability	: Yes *	
Elastic Recovery	: ≥ 70%	(ISO 7389)

*Considering the diversity of paint base and quality, compatibility tests should be done before application.

GLASS-GLASS

Elongation at break	: Min. 100%	(ISO8339)
E100 Modulus (23 °C)	: 0.35-0.40 N/mm ²	(ISO8339)
E100 Modulus (-20 °C)	: ≤ 0,60 N/mm ²	(ISO8339)

DUMBLE TEST

Elongation at break	: ≥600	(ASTM D412)
Tensile Strength	: 1.5-2.0 N/mm ²	(ASTM D412)

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