



## **BP Jointseal-PU** (Single Component, Gun Grade, PU Sealant for Joints Filling)

**BP Jointseal-PU** is a single component gun grade high performance polyurethane sealant, which cures to form a firm and flexible rubber watertight & vapour tight seal for moderate structural movement and control joints. It can be used in both horizontal and vertical applications on dry surface of concrete, metal, wood, tiles, marbles, glass, & PVC etc. The sealant has a Movement Accommodation Factor (MAF) of  $\pm 28\%$ .

**Uses:** It is specifically used for filling deep cracks and holes, sealing dynamically moving joints, such as expansion and control joints, precise concrete panel joints, tilt-up panel joint, curtain wall joints and perimeter caulking to windows, doors and panels, retaining walls, privacy fences, etc. Joint width should be 4 times anticipated movement, but not less than  $\frac{1}{4}$  inch (6.4mm) wide.

### **Advantages:**

- Seals concrete joints, cement-bound substrates joints, metal & glass joints up to 5cm wide
- Tough surface, allows pedestrian and vehicular traffic after 7 days of application
- Can be applied on damp, permanent wet surfaces, and exposed to UV rays surfaces
- High resistance to carbon dioxide diffusion and anti-carbonation protection
- Highly Flexible, allows hairline cracks in the substrate to be bridged over
- Superior adhesion, bonds to porous and non porous substrates
- Resistant to chloride, sulphate, salts, grease, oils, alkalis, etc.
- Water vapour permeability allows substrate to breathe

### **Directions for use:**

**Surface Preparation:** The joint edges must be clean, dry and free from oil, loose particles, cement laitance and other contaminants which may affect the adhesion. A thorough wire brushing, grinding, sand blasting or solvent cleaning may be required to expose a clean and sound substrate. When applied on glazed surfaces like ceramic or terrazzo tiles or porcelain enamel joint surfaces, the glaze should be removed by abrading with sandpaper or wire brush.

**Mixing:** Mixing or stirring etc is not required.

**Surface Priming:** On new & old concrete substrates, the sealant can be applied without primer. When applying on aluminium and metal surfaces, ensure the surface is cleaned of all lacquer or protective coatings. Galvanized, copper and stainless steel surfaces shall be primed with GMC PU Primer.

**Back-up Material:** A bond breaking backing rod shall be inserted evenly & tightly into all movement joints to avoid a three sided adhesion. A bond breaking tape may be applied to joints where the depth does not allow the application of the backing rod.

**Application:** Load Jointseal-PU from self contained sausage or cartridge or from bulk container onto a barrel gun. Start extruding the sealant into the joint firmly by maintaining an even pressure on the trigger of the gun. On vertical joints, sealant extrusion shall start from the bottom of the joint and continued to the top. Once the sealant has been installed a suitable rounded tool can be used to achieve a smooth hour glass profile.

DO NOT USE SOAPY WATER SOLUTION. Any masking tape applied should be removed immediately after the sealant is installed. **Jointseal-PU** can also be applied using many types of air-operated guns and most types of bulk dispensing equipments.

**Skimming Time:** Approximately 30 minutes when exposed to atmosphere

### **Curing:**

It cures on absorption of atmospheric moisture to form a firm and flexible rubber. Depending upon thickness and areas of applications; however, at 25<sup>0</sup>C curing rate is 1 day for 10mm x 10mm thickness.

### **Precautions:**

Jointseal-PU is not recommended for:

- Movement joints having MAF >28%
- Damp and contaminated surfaces
- Asphalt pavements
- Check paint compatibility with sealant
- Joints width > 25mm

### **Typical Properties:**

Appearance	: Thixotropic in Custom colours
Density (g/cc)	: 1.3 $\pm$ 0.05
Coverage/ 500ml	: 2m @ 20mm x 10mm
Elongation	: >150 %
Service temperature	: -20 to 80 <sup>0</sup> c
Application temp.	: +5 to 45 <sup>0</sup> c



**BUILD PLUS**  
CONSTRUCTION CHEMICALS

#### Code of Standards:

**Jointseal-PU** complies with the requirements of:  
BS 5212: Part 1; ASTM C 920, Type S, Grade NS, Class 25  
Federal Specification TT-S-00230C, Type II, Class A

**Pack Size:** 600ml sausage

#### Technical support:

GMC offers comprehensive technical support service & specification assistance in locations to our channel partners, end users, and contractors.

#### Quality & Care:

All the products manufactured and originated from Gulf Minerals and Chemicals, UAE facility are independently tested and certified under a GMC Management System to conform to the requirements of the quality, environmental, health & safety Standards.

#### Cleaning:

Remove all excess sealant with a scraper. Clean all tools and equipments using warm water immediately after the tooling. Hardened materials can be removed manually or mechanically.

#### Storage:

**Jointseal-PU** should be stored in tightly sealed original factory containers. Store in a horizontal position to prevent moisture accumulation on the drum head, protect from freezing and keep out of direct sunlight.

#### Shelf Life:

12 months in a properly closed container. As usual with such adhesives, protect from extremes of heat and cold. Do not store in open and always rotate stock, using oldest material first.

#### Handling:

**Jointseal-PU** is a non- flammable and non-toxic in nature. Avoid contact with eyes and skin as it may cause irritation due to its alkaline nature.

#### Health & Safety Precautions:

As with all construction chemical products, caution should be exercised. Adequate ventilation should be provided at the place of work. **BP Jointseal-PU** is a non toxic but it is mildly alkaline. During use, avoid contact with skin and eyes. Wear suitable protective clothing, gloves, eye protection and respiratory protective equipment. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water.

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