



# **CLADSEAL PU**

## **One Part Low Modulus Polyurethane Sealant**

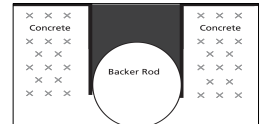
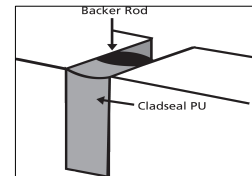
**CLADSEAL PU** is an elastic, single component, versatile one-part polyurethane sealant suitable for both horizontal as well as vertical applications. Horizontal applications include flooring, concrete roads and pavements, toll plazas, internal and external concrete floor joints etc. The high thixotropy of this product helps to reduce sealant from flowing into any gaps between joint edges and backer rod.

Vertical applications include sealing joints in pre-cast elements, external walling, curtain walling and cladding, panel walls, cement fibre boards, gypsum plasterboards, window and door perimeter sealing etc.



### **CLADSEAL PU Benefits**

- One part, reduces the possibility of applicator error and possible joint failure
- Excellent thixotropy - non-sag
- Elastic low modulus
- Pitch-free - overpaintable
- Movement capability +/- 25%
- Bubble-free curing, no weak areas for air bubbles to develop
- Excellent resistance to weathering (DIN 14231)
- Very good adhesion to most construction materials especially concrete without the need of primer
- Permanently elastic over a wide range of temperatures
- Conforms to **ISO 11600 F 25 LM**, **BS5212:1990 Type FB**, and **BS 6920** for contact with potable water



### **CLADSEAL PU Technical Data**

<b>Chemical Basis</b>	Polyurethane
<b>Cure Mechanism</b>	Moisture curing
<b>Specific Weight</b>	1.34 +/- 0.02gr/cc
<b>Tack free time at 23°C and 50% r.h.</b>	≈ 120 minutes
<b>Curing at 23°C and 50% r.h.</b>	≥ 2,5 mm/24h
<b>Hardness Shore A (DIN 53505)</b>	20-25
<b>Elastic modulus at 100% (DIN 52455)</b>	≤ 0,5 N/mm <sup>2</sup>
<b>Tensile strength (DIN 53504)</b>	1,5 N/mm <sup>2</sup>
<b>Elongation at break (DIN 53504)</b>	≥ 600%
<b>Elastic recovery (DIN 52458)</b>	80%
<b>Admissible joint movement</b>	+/-30%
<b>Application Temperature</b>	+5°C - +35°C
<b>Temperature Resistance</b>	-40°C - +80°C



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### **Surface preparation:**

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. Precast panels using form-release agents other than polyethylene film must be sandblasted or mechanically abraded and dust free.

### **Priming:**

**CLADSEAL PU** has excellent adhesion properties even without the use of primer on most common building materials. However, natural stone, paints, coatings and other treatments of surfaces may present a difficult surface to which to adhere. Due to the number of unpredictable natures of these substrates, a preliminary test is recommended. PU Porous Primer may be required for porous surfaces.

### **Application:**

Recommended application temperatures: 5° - 35°C. For easier use or cold weather application we recommend the material is stored at approximately 25°C prior to use.

In order to guarantee free movement of sealant in joints, it is imperative that the sealant does not adhere to the bottom of the joint, therefore joint backer rod should be used at the proper depth.

Apply appropriate primer to joint sides and observe waiting time to avoid any air bubbles which may arise from the solvent heating under un-cured sealant.

Firmly extrude sealant into the joint making sure that it is in full contact with the sides of the joint and with the backing rod at the bottom. Keep the nozzle in the sealant, continue on with a steady flow of sealant preceding the nozzle to avoid air entrapment. Avoid overlapping of sealant to eliminate entrapment of air.

Masking tape should be used where sharp exact joint lines or exceptionally neat lines are required. Remove the tape whilst the sealant is still soft.

### **Joint Width to Depth Ratio**

Minimum Joint Width recommended – 6mm

Width to Depth Ratio recommended:

For Joints up to 10mm – 1:1

For Joints 12.5mm to 50mm – 2:1

For Joints >50mm, please refer to our Technical Department

### **Notes:**

Do not apply in presence of curing silicones

Do not apply when moisture-vapour-transmission condition exists from the substrate as this can cause bubbling of the sealant

Avoid air entrapment when applying

### **Product**

*Colour* Grey/black/white

*Packaging* 600ml foil pack – 20 per box

*Storage* Store in cool and well-ventilated areas

*Shelf Life* 12 Months stored correctly

### **Health and Safety**

Ensure that protective gloves, overalls and protective footwear are worn at all times when handling the material. Avoid skin contact. Should the material come in contact with the skin it may be removed with soap and warm water. If discomfort continues, seek medical advice. If product comes in to contact with eyes, rinse with plenty of fresh water and seek medical advice. For full updated information please see Material Safety Data Sheet .

## **CLADSEAL – Sealing Solutions**

#### Disclaimer

The Company's Products are sold subject to the Company's Standard Terms and Conditions of Sale. Products are warranted against defective materials and workmanship. The Company makes every effort to ensure that all the information, recommendations or the specifications provided by it are accurate and true. However as the Company has no control over the conditions of use, it cannot accept any liability, either directly or indirectly regarding the usage of its products. Product specifications are subject to change without prior intimation to users as the products are being continuously upgraded.



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