

PYROGRIP PU

low modulus isocyanate free polyurethane sealant

Pyrogrip PU is a Low Modulus, Hybrid Polyurethane, flexible joint sealant and adhesive that is free of isocyanate and other hazardous raw materials and emits low odour. Pyrogrip PU has been formulated to offer outstanding adhesion to most common building and automotive materials; such as Aluminium, timber, concrete, fibreglass and be used in most sealing and joint filling applications.

Pyrogrip PU displays high joint movement capability with no sagging or slump characteristics to provide a high quality & efficient joint finish.



SPECIFICATIONS

Colour	Dark Grey
Packaging	600 ml foil
Shelf life and storage	18 months shelf when stored in a dry environment and between +5°C and +25°C

HEALTH AND SAFETY RECOMMENDATION

Apply the usual industrial hygiene. Wear gloves, safety glasses. Volatile compound released during curing, ensure adequate ventilation.

SAFETY DIRECTIONS

Use in well-ventilated areas and avoid breathing vapours. In case of eye contact immediately flush with water for 15 minutes and seek medical advice.

Avoid contact with skin or clothing.

Keep out of reach of children. In use, please ensure that Occupational Health and Safety requirements are observed.

Eyes: Irrigate with water for 10 minutes and see a doctor.

Skin: Wash off with warm water and soap.

If swallowed, give plenty of water. Do not induce vomiting. Seek medical attention.

applications

- Construction Joint Sealant applications
- General purpose interior joint sealant applications
- Suitable for external sealing applications, demonstrating superior weather protection and UV resistance
- Sealing and bonding metal roofing systems
- Automotive and marine applications requiring a flexible adhesion profile between substrates.

features

- Solvent & Isocyanate Free
- Low VOC
- Low Odour & Non-Corrosive
- Joint Movement $\pm 25\%$
- Non-Slump
- Up to 40mm wide joints
- Paintable

Note: The contents contained in this documentation are the result of our experiments and our experience and have been submitted in good faith. Because of the diversity of the materials and substrates and the real number of possible applications which are beyond our control we cannot accept any responsibility for the results obtained. In every case it is recommended to carry out preliminary experiments and compatibility tests.



MATERIAL PROPERTIES

Property	Value	Test Method
Appearance	Thixotropic, Non Sag paste	
Curing Method	Moisture Curing	
Movement Capability	± 25%	
Elongation @ Break	Approx. 300%	
Skinning Time	Approx. 35 mins @ 25°C, 50% Relative Humidity	
Tack Free Time	64 minutes	ASTM C 679-87
Rate of Cure	2.5 mm per 24 hours	
Shore A. Hardness	30	ASTM C 661
Specific Gravity	1.6 grams/ml	DIN 52451-A
Tensile Strength	0.7 N/mm ²	
Service Temperature	-40°C to +90°C	
Application Temperature	+5°C to +50°C	
voe Rating	34 gm/L (3.4%)	

APPLICATION INSTRUCTIONS

Cut nozzle at a sharp angle slightly wider than the desired bead or joint width. If being installed as a joint sealant, always use a suitable backing rod to ensure the correct depth is achieved. The Joint depth should be half of the joint width. Extrude sealant with a gun and tool with a round spatula within 10 minutes to spread the sealant against the joint surfaces.

SURFACE PREPARATION

Surfaces to be bonded must be clean and dry, as well as free of wax, grease, dust and any other foreign materials so that the adhesive bond is not compromised. Metal substrates should be degreased.

PRIMING

It is advisable to conduct preliminary adhesion tests on substrates where the application is critical or if the adhesion performance is unknown. When insufficient bonding strength is achieved, contact local Pyrotek representative.

CURING

Cure speed is dependent upon the temperature, humidity, depth of sealant and substrate. Typically, a joint will form a firm skin in one hour and take up to seven days to fully cure. In cold or very humid climates, the cure time may extend beyond seven days.

LIMITATIONS

- Pyrogrip PU will bond to most common construction substrates, however an adhesion tests on samples substrates should be conducted to ensure adequate adhesion in the finished application.
- In waterproofing applications, Pyrogrip PU should be left to cure for a minimum of 8 hours prior to being covered by any membrane/ sealer system.
- Tests should be conducted to ensure that there are no adverse reactions between Pyrogrip PU and a membrane coating system.