

Technical Data Sheet

Dated: 20/08/2017

Isocyanate Free Low Modulus Hybrid Polyurethane Sealant

DESCRIPTION

Lincoln Sentry Hexfix hPU is a Low Modulus, Hybrid Polyurethane, flexible joint sealant and adhesive that is free of Isocyanates and other hazardous raw materials that omits a low odour. Hexfix hPU has been formulated to Australian conditions offering outstanding adhesion to most common building and automotive materials; such as Aluminium, timber, concrete, fibreglass and can be used in most sealing and joint filling applications.

Lincoln Sentry Hexfix hPU displays high joint movement capability with no sagging or slump characteristics resulting in a high quality joint finish.

APPLICATIONS

Lincoln Sentry Hexfix hPU is suitable for:

- Perimeter seals around doors, windows and facades
- Sealing and bonding metal roofing
- Construction joint sealant applications
- General purpose interior joint sealant applications
- Automotive and marine applications requiring a flexible adhesion profile between substrates.

FEATURES

- Solvent & Isocyanate Free
- Low Odour & Non Corrosive
- Good UV Resistance
- Low VOC
- Paintable
- Non Slump
- Up to 40mm wide joints
- Joint Movement +/- 25%

MATERIALS

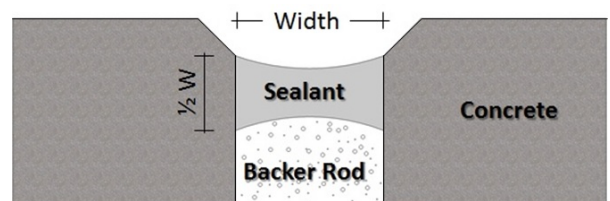
- Aluminium Profiles
- Plasterboard & Blue Board
- Precast Concrete Panels
- Fibre Cement Sheet
- Block work & Bricks
- Sandstone & Granite
- Fibreglass

SURFACE PREPERATION

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 with suitable contact adhesive cleaner.

JOINT DESIGN

- Lincoln Sentry Hexfix hPU has a high body designed not to slump in joints up to 40mm in width.
- To allow the sealant to move effectively, the correct joint design requires that the sealant depth must be half of the width of the joint.
- A suitable closed cell backing rod must be used to ensure that the correct joint depth and sealant cure is achieved.



LIMITATIONS

- Hexfix hPU 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.
- Waterproofing applications, Hexfix hPU 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 Hexfix hPU and a membrane coating system.

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.

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.

PRIMING

It is advisable to conduct preliminary adhesion tests on substrates where the application is critical or if the adhesion performance is unknown. The use of an approved primer is recommended for Non Porous substrates such as metal, aluminium, glass and plastics.

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TYPICAL PROPERTIES

PROPERTY	VALUE	Test Method
Appearance	Thixotropic, Non Sag paste	
Curing Method	Moisture Curing	
Movement Capability	+/- 25%	
Elongation @ Break	Approx. 320%	
Skinning Time	Approx. 30 mins @ 25°C, 50% Relative Humidity	
Tack Free Time	55 - 65 minutes	ASTM C 679-87
Rate of Cure	2.4mm per 24 hours	
Full Cure		
Shore A. Hardness	30 - 32	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	
VOC Rating	34 gm/L (3.4%)	

Note: All data provided is based on 25°C and 50% Humidity Conditions & fully cured after 21 days

Range

Hexfix hPU is available in Grey, Black or White 600ml Sausages

Lincoln Sentry Hexfix hPU complies with ASTM C920, Type S, Grade NS, Class 25, Use NT,M,G,A and O

SHELF LIFE & STORAGE

18 months shelf life when stored in a dry environment and between +5°C and +25°C.

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. 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.

Hexfix hPU SDS is available upon request.

Notice

The information given and the recommendations made herein apply to our product(s) alone and not combined with any other product (s). Such are based on our research and on data from other reliable sources and are believed to be accurate. No guarantee of accuracy is made. It is the purchasers' responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes.