

# hydraflex

Low Modulus Isocyanate Free Polyurethane Sealant

## hybrid

### DESCRIPTION

**Hydraflex Hybrid** is a Low Modulus, Hybrid Polyurethane, flexible joint sealant and adhesive that is free of Isocyanates and other hazardous raw materials and omits low odour. **Hydraflex Hybrid** 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.

**Hydraflex Hybrid** displays high joint movement capability with no sagging or slump characteristics to provide a high quality & efficient joint finish.

**Hydraflex Hybrid** complies with **ASTM C920, Type S, Grade NS, Class 25, Use NT,M,G,A and O**

### APPLICATIONS

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

### FEATURES AND BENEFITS

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

### RECOMMENDED FOR

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

### 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.

### PRIMING

It is advisable to conduct preliminary adhesion tests on substrates where the application is critical or if the adhesion performance is unknown.

### 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.



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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. 300%	-
Skinning Time	Approx. 35 mins @ 25°C, 50% Relative Humidity	-
Tack Free Time	64 minutes	ASTM C 679-87
Rate of Cure	2.5mm per 24 hours	-
Full Cure	-	-
Shore A. Hardness	30	ASTM C 661
Specific Gravity	1.6 grams/ml	DIN 52451-A
Tensile Strength	0.7 N/mm <sup>2</sup>	-
Service Temperature	-40°C to +90°C	-
Application Temperature	+5°C to +50°C	-
VOC Rating	34 gm/L (3.4%)	-

### JOINT DESIGN

- **Hydraflex Hybrid** 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 must be used to ensure that the correct joint depth is achieved.

### 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

- **Hydraflex Hybrid** 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, **Hydraflex Hybrid** 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 **Hydraflex Hybrid** and a membrane coating system.



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### 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.

### WARRANTY

Polybit Waterproofing Systems products are manufactured very rigid quality standards and guarantees the performance of Hybrid 150 when the following applications are followed.

- Applied to adequately prepared and structurally sound surfaces
- All tiling installed in accordance with AS3958
- All waterproofing membrane installed in accordance with AS4654 and AS3740
- All relevant requirements of NCC
- Polybit Waterproofing Systems TDS or other written instructions

Polybit Waterproofing Systems Will warrant its products for 10 years from time of application. If any product that have been applied in accordance with its specific data sheet or with Polybit Waterproofing Systems written instructions that have been proven faulty or defective, Polybit Waterproofing Systems will replace product free of charge and cover labor of original installation.

### DISCLAIMER

The information, and, in particular, the recommendations relating to the application and end-use of Polybit Waterproofing Systems products, are given in good faith based on Polybit Waterproofing Systems current knowledge and experience of the products when properly stored, handled and applied under normal conditions.

It is your responsibility to ensure that our products meet your requirements, are used and handled correctly in accordance with any applicable Australian Standard, our instructions and recommendations and only used for the applications for which they are intended.

In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered.

We also reserve the right to update information without prior notice to you to reflect our ongoing research and development.

The supply of our products and services is also subject to certain terms, warranties and exclusions, which may have been disclosed to you in prior dealings or are otherwise available to you on request. You should make yourself familiar with these.



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