

## Technical Data Sheet

# Hi-Flex Construction

## MS Polymer Based Hybrid Sealant

Complies with ASTM C920-CLASS 50 &amp; ASTM C1248

**Adheseal**  
The Adhesive and Sealant Specialists

### Description:

Hi-Flex Construction is a high performance, single component elastomeric joint sealant based on Hybrid MS Polymer technology. It is a neutral cure, low modulus sealant with high movement capabilities and excellent UV and weathering resistance in all climates.

Hi Flex Construction has outstanding bond strength and primeless adhesion on most common construction substrates. This sealant is very durable and is resistant to gassing, eliminating bubbling even in high humidity applications.

Hi Flex Construction will bond to most common construction and industrial substrates such as aluminium and metals, masonry surfaces, natural stone and many plastics and is suitable for construction, manufacturing, automotive and marine industries.

### Features:

- Outstanding primer-less adhesion
- Movement capability up to +/- 50 %
- Non-bleeding / non-staining
- No isocyanates, solvents or acids
- Excellent UV and weathering resistance
- Easy gunning and tooling
- Low V.O.C - Green Star Compliant
- Paintable

### Uses:

- General purpose sealant
- Expansion & construction joints

### Uses continued:

- Sealing and finishing external wall & cladding joints such as modern facade panels
- Waterproofing applications such as fillet joints
- Sealing of joints in prefabricated buildings or concrete panels
- Window fixing and commercial shop fronts
- Bonding and sealing automotive and marine manufacturing

### Priming:

Priming is not normally required but some difficult surfaces may need some treatment.

**We recommend preliminary compatibility tests prior to application to achieve desirable results .**

### Joint design:

The specified sealant joint size should be calculated to comply with the compression and extension capabilities of the sealant in relation to the anticipated joint width due to expansion and contraction.

Generally calculation of the width of Hi-Flex Construction sealant joint should be computed on the basis of a maximum + or - 50 % of the original joint width. Minimum joint size should not be less than 3mm to accommodate movement.

Design joint width to depth ratio is 2 : 1 with a minimum depth of 6mm in movement joints.

Suggested joint sizes:

6 X 6 , 10 X 6 , 16 X 8 , 20 X 10

Type of product	MS Polymer
Curing system	Neutral
Density (specific gravity)	1.45 +/- 0.05 ASTM D1475
Consistency	Non Sagging Paste
Elongation at break	1100% approx. ASTM D412
Application temperature	5°C to 40°C
Service temperature	-40°C to 100°C
Movement Capability	+/- 50% ASTM C719
Hardness Shore A	25 approx. ASTM D2240
VOC	1.10% (USEPA)
Shelf life	12 months
Clean up	MEK, Toluol, Some industrial cleaning wipes
Colours	Matt Grey, Matt Black, White
Staining	non staining as per - ASTM C510 & ASTM C1248

**Safety**

This product is not classified as hazardous according to Work safe Australia however skin irritation and sensitisation may occur in sensitive individuals. Please consult S.D.S. for this product for further information.

**Guarantee / Warranty**

We warrant our products to be free of defects and manufactured to rigid quality control specification. As it is impossible to control the use and application of the products, the company's liability is limited to replacing such quantities of product as are proven to be defective. The company disclaims any claims for repainting or other labour resulting from the use of the product. No responsibility is assumed for consequential damages arising from the use of the product. All other warranties including (merchantability or fitness for a particular purpose) are excluded. No representative of the company is authorised to grant any warranty or waive this limitation of liability. All claims concerning product defects must be made within twelve months of shipment. Absence of such claim in writing during this period will constitute a waiver of all such claims with respect to such product.

**Adequate Tests**

The information contained in this bulletin we believe is correct to the best of our knowledge and tests. The recommendation and suggestion contained herein are made without guarantee or representation as to the results. We recommend that adequate tests be made in your laboratory or plant to determine if this product meets all your requirements.