



# TECHNICAL DATA SHEET



## HIGH TEMPERATURE PIPE SEALANT PART NO. 50567 (50mL)

### DESCRIPTION

**DynaGrip**® Temperature Pipe Sealant is a single component, low-medium strength thixotropic anaerobic pipe sealant. The product cures between close fitting metal parts where there is an absence of air. It provides a tough, resilient, solvent and temperature resistant seal that flexes with flange movement caused by vibration, pressurization or thermal changes.



### TYPICAL APPLICATIONS

- Locks and seals medium to coarse straight tapered pipe threads
- Threads from 12mm – 80mm

### FEATURES

- No mixing
- No curing outside of joint

### PHYSICAL PROPERTIES

#### Monomer (Liquid)

Base Compound.....	Dimethacrylate Ester
Colour.....	White
Viscosity (cP @ 20 <sup>0</sup> C/68 <sup>0</sup> F).....	400,000cP
Flash Point (TCC).....	>100 <sup>0</sup> C(200 <sup>0</sup> F)
Max Gap Fill.....	5mm(.020")
Corrosivity.....	None
Toxicity.....	Low
Shelf Life @ 4 <sup>0</sup> C(40 <sup>0</sup> F).....	1 year unopened
Curing Properties.....	Depends on environmental conditions and the substrates used

#### Polymer (Cured)

Appearance.....	Purple Solid
Service Temp. Range.....	-54 <sup>0</sup> C to 148 <sup>0</sup> C
	.....(-65 <sup>0</sup> F to 300 <sup>0</sup> F)
Full Cure Time.....	24 Hours

## CURING PROPERTIES

The rate of cure will depend on environmental conditions and the substrates used. DynaGrip® High Temperature Pipe Sealant will offer an instant seal while still uncured when subjected to a low on-line pressure test.

## CURING PERFORMANCE

The gap of the bond line will affect set speed. Smaller gaps tend to increase the speed. Activators can be applied to improve set speed but may also impair overall adhesive performance. The use of an accelerator may reduce bond strength by up to 30%. Testing on the parts is recommended to measure the effect.

## CHEMICAL RESISTANCE

Shear strength on steel after 500 hours.

Solvent	% Strength Retained
• Motor Oil	100
• Unleaded Gasoline	95
• Brake Fluid	100
• Ethanol	100
• Acetone	95
• Water/Glycol Mix	80

## GENERAL INSTRUCTIONS

Surfaces to be bonded should be clean and dry and free of grease.

Product should be applied in enough quantity to fill all engaged threads. The product performs best in thin bond gaps. Very large gaps may create gaps, which will affect the cure speed and overall strength. Good contact is essential. An adequate bond develops in 15 to 45 minutes and maximum strength is attained in 24 hours.

**This product is not recommended for use in pure oxygen environments and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.**

This product is not designed for plastics, particularly thermoplastics where stress cracking of the plastic could result. It is recommended to confirm compatibility of the product with all substrates prior to use.

## STORAGE AND SHELF LIFE

When stored in the original unopened containers at or below 32°C (90°C), DynaGrip® Temperature Pipe Sealant has a shelf life of 12 months from date of shipment.

In Countries where high heat and humidity are a factor, special precautions must be taken. Store product in a covered, well-ventilated warehouse and avoid excessive heat conditions. Storage in high heat, high humidity conditions may reduce shelf life by up to 30%. Rotation of stock is an absolute necessity. Cartons should always be stacked upright. DO NOT stack cartons on their side. **NEVER** stack cartons more than 8 high. DO NOT store within 1 metre (4 feet) of roofline of the warehouse or storage building.

## GENERAL INFORMATION

The information and data contained herein is believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of use. Since the supplier cannot know all the uses, or the conditions of use to which these products may be exposed, no warranties concerning the fitness or suitability for a particular use or purpose are made.

It is the user's responsibility to thoroughly test any proposed use of our products and independently conclude satisfactory performance in the application.

Likewise, if the application, product specifications or manner in which our products are used require government approval or clearance, it is the sole responsibility of the user to obtain sure authorization.

The supplier warrants only that its products will meet its specifications. There is no use, nor any other express or implied warranty. The user's exclusive remedy and the supplier's sole liability is limited to refund of the purchase price or replacement of any product when to be otherwise than as warranted. The supplier will not be liable for incidental or consequential damages of any kind.

Suggestions of uses should not be taken as inducements to infringe any patents.



DynaGrip® is a registered trademark of

AFC International Pty Ltd.  
21- 23 Hobart Street  
Riverstone NSW 2765  
TEL +61 2 9627 7125  
www.dynagrip.com.au