



## GASKET & FLANGE MAKER

### PART NO. 50515 (50mL)

#### DESCRIPTION

**DynaGrip**® Gasket & Flange Maker is a high-performance anaerobic sealant for sealing close fitting joints between rigid metal faces and flanges. This sealant is ready to use and cures at room temperature.

Ideal to seal against gases, water, LPG, hydrocarbons, oils and other chemicals. Excellent thixotropic property prevents migration of the sealant before or during curing. Good shock and vibration resistance.

Widely used as form-in-place gaskets for pumps, thermostats, compressors, transmission housings and axle covers.

#### TYPICAL APPLICATIONS

- Vacuum pump flanges
- Fuel pumps
- Water pumps
- Gearbox covers
- Automotive and truck axle covers
- Split crankcases
- Thermostats

#### FEATURES

- No mixing
- No curing outside of joint
- Non-corrosive to aluminium or cast-iron parts
- Eliminates need to re-torque compressible mechanical gaskets



#### PHYSICAL PROPERTIES

##### Monomer (Liquid)

Base Compound.....	Polyurethane Methacrylate
Colour.....	Purple
Viscosity.....	275,000 – 950,000 high thixotropic Gel
Flash Point (TCC).....	>100 <sup>0</sup> C(200 <sup>0</sup> F)
Gap Fill.....	0.50mm(.010")
Corrosivity.....	None
Toxicity.....	Low
Specific Gravity (g/cc).....	1.1
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

Coefficient of Thermal Expansion.....K-1 80x10-6  
ASTM D 696

Coefficient of Thermal Conductivity...0.10 W/(m·K)  
ASTM C 177

Specific Heat, kJ/(kg·K).....0.30

## CURING PROPERTIES

Temperature Range	-54 <sup>0</sup> C to 148 <sup>0</sup> C (-65 <sup>0</sup> F to 300 <sup>0</sup> F)
Handling Cure Time:	15-90 minutes
Functional Cure Time:	3-6 hours
Full Cure Time:	6-24 hours
Shear Strength:	4 - 9 N/mm <sup>2</sup> (ASTM D – 1002)
Tensile Strength:	8 –23 N/mm <sup>2</sup> (ASTM D-2095)
Impact Strength:	5 – 8 N/mm <sup>2</sup> (ASTM D – 950)
Elongation of Cured Film:	over 100%

## SEALING CAPACITY

Gasket with an inner diameter of 60 mm and external diameter of 80 mm is tested up to 1.5 Mpa for leakage.

Sealed to Maximum Induced Gap, mm

Aluminium	< 0.125
Mild Steel	<0.125

## CHEMICAL RESISTANCE

Chemical	Temp.	% Initial Strength	
		500 hours	1000 hours
Acetone	22 0C	100	95
Ethanol	22 0C	100	95
Motor Oil	125 0C	100	100
Petrol	22 0C	100	100
Brake Fluid	22 0C	100	100
Water/Glycol	87 0C	90	85

## 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®** Gasket & Flange Maker 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 such 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.



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