

# Technical Data Sheet

## B518 – High Temperature Gasket Sealant

Revised 03.08.10



# BARNWELL

THE SEAL OF APPROVAL

## B518 High Temperature Gasket Sealant

### PRODUCT DESCRIPTION

Gasket Seal Type B518 is a Red, smooth, thick paste. Easily applied B518 cures confined between the parts to Form-In-Place a tough, flexible gasket. B518 gives an Instant low pressure seal.

### APPLICATIONS

B518 is used for fuel and water pumps, split crank cases on engines, gearbox covers, engine thermostats, air compressor end caps, engine timing cam covers onto blocks, pump couplings, fuel tanks on small implements, chain saws, lawn mowers etc. Use B518 for dressing gaskets, spacers etc.

### USEFUL NOTES

Where gap size is large or where the surface is uneven, apply Activator to help the product cure through volume. B518 can be roller coated, screen printed, traced or pad applied.

### INSTRUCTIONS FOR USE

Ensure parts are clean, dry and free from oil and grease. Apply adhesive to surface and assemble parts. Parts should be left for 30 minutes to reach handling strength. Leave for 12 hours to fully cure. Primers such as B7471 (Standard Anaerobic Activator) can be used, however up to 20% strength loss can occur when using accelerators.

### TECHNICAL FEATURES

Resin	Modified Urethane Acrylate
Colour	Red Paste
Fixture Speed No Activator	Up to 12 hours
Fixture Speed With Activator	<2 hours
Viscosity Brookfield Sp7 @20rpm @ 25°C	>3,500,000 cps
Gap fill	0.5 mm
Flash point	>100°C
Shelf life	12 months @ 20°C
Specific gravity	1.13
Max operating temp	-55°C to + 150°C

### CURED PERFORMANCE

Full Cure Time	12 hours
Tensile strength	8 N/mm(2)
Static Shear strength	12.5 N/mm(2)

B518 will instantly low pressure seal all close fit Gaskets, however joint design, gap size and materials all combine to give different cure rates. Tests on fully cured materials result in pressure loads of up to 250 bar being typical.

### STORAGE

Store in a cool area out of direct sunlight.  
Shelf Life: 12 months at ambient temperatures.

### HEALTH & SAFETY

IRRITANT: Contains Methacrylate Esters and some products contain small amounts of Acrylic Acid. Irritates eyes, the respiratory organs and the skin. In case of contact with the skin wash immediately with plenty of water.

### PRESENTATION

Bottles.....25ml, 50ml, 65ml, 250ml, 300ml  
Clam Packs.....25ml, 50ml, 65ml

PRECAUTIONS: This product and the auxiliary materials normally combined with it are capable of producing adverse health effects ranging from minor skin irritation to serious systemic effects. None of these materials should be used, stored, or transported until the handling precautions and recommendations as stated in the Material Safety Data Sheets (MSDS) for this and all other products being used are understood by all persons who will work with the product. Warranty: All products purchased from or supplied by Bondloc are subject to terms and conditions set out in the contract. Bondloc warrants only that its product will meet those specifications designated as such herein or in other publications. All other information supplied by Bondloc is considered accurate but are furnished upon the express condition the customer shall make its own assessment to determine the product's suitability for a particular purpose. Bondloc makes no other warranty, either express or implied, including those regarding such other information, the data upon which the same is based, or the results to be obtained from the use thereof; that any product shall be merchantable or fit for any particular purpose; or that the use of such other information or product will not infringe any patent.