



# Technical Data Sheet

## B542 Hydraulic Thread Sealant

December 2021

### PRODUCT DESCRIPTION

B542 Hydraulic Thread Sealant is a fast-curing medium strength anaerobic sealant designed for the locking and sealing of metal pipes and fittings and helps prevent loosening and leakage due to shock and vibration. It is resistant to hydraulic fluids, oils, fuel, and coolants and ideal for threads, hydraulic and pneumatic fittings.

### THREAD SEALANTS

Bondloc Thread Sealants are single-component liquids that cure at room temperature in the absence of air and when in contact with metal ions. The adhesive completely fills the gaps between mating threads to lock threads and joints. Bondloc Thread Sealants replace conventional methods used such as PTFE tape, O-ring, hemp etc which can all cause issues.

### ANAEROBIC KEY FEATURES

- Single-component – clean and easy to apply
- Do not creep, shrink or block systems
- Can be used on any size of pipe fitting
- Replace all types of tape and paste sealants
- The seal resists vibration and shock loads
- Protect mated threaded areas against corrosion and galling.

### TECHNICAL FEATURES

Base technology	Dimethacrylate ester
Colour	Brown (UV Positive)
Cure	Anaerobic
Viscosity Brookfield Sp2 @20rpm@25°C	400-800cps
Cure speed without Activator	10-20 minutes @ 22°C
Cure speed with Activator	<5 minutes
Max Thread Size	M36
Shelf Life	24 months @ 22°C
Specific Gravity ASTM D1475-13 (2020)	1.06
Temperature Range	-55°C to +150°C

### TEST PERFORMANCE

Full Cure Time	24 hours @ 22°C
Strength – ISO 10964 Breakaway Prevailing	Unseated <15N/mm <sup>2</sup> 9Nm
Strength – ISO 10964 Breakloose Prevailing	Pre-torqued 25Nm 25Nm

### TEST CRITERIA

The test performance data reported was measured according to ISO 10964 using M10 black oxide bolts and mild steel nuts, cured 24 hours at 22°C (71.6°F) before testing.

### PACKAGING FORMAT

Bottles.....10ml, 25ml, 50ml, 250ml

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### INSTRUCTIONS FOR USE

- Clean surfaces to be bonded with B7063 Solvent Cleaner and allow to dry
- Apply adhesive to the surface and assemble parts
- When the cure speed is slow use B7649 Anaerobic activator for increased cure and set times.

### LIMITATIONS

- This product is not recommended for use in pure oxygen and/or oxygen-rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials. Material removed from containers may be contaminated during use. Do not return the product to the original container. Bondloc UK Ltd will not assume responsibility for product that has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact our office, and report the problem
- Anaerobic products are not normally recommended for use on plastics (particularly thermoplastic materials where stress cracking of the plastic could result). Users are recommended to confirm compatibility of the product with such substrates.

### STORAGE

Store product in the unopened container in a dry area out of direct sunlight. Storage below 7°C or greater than 28°C can adversely affect product performance. If stored properly, this product has a shelf life of 24 months.

### HEALTH & SAFETY

This technical information sheet does not constitute a Safety Data Sheet (SDS). Before using this product ensure you have read and fully understood this products SDS.

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