



Technical Data Sheet B510 Gasket Maker

December 2021

PRODUCT DESCRIPTION

B510 Gasket Maker is a high temperature and chemical resistant form-in place gasket maker for all types of metal parts, sealing and resisting temperatures above 200°C providing an instant low-pressure seal. Typical applications include sealing rigid flange faces on transmissions and motor casings. Suitable for surface imperfections up to 0.25mm.

GASKET SEALANTS

Bondloc Gasket Sealants are single-component pastes/gels that cure at room temperature in the absence of air and when in contact with metal ions. They are used to prevent leakage of fluids or gases by forming an impervious barrier when the seal must remain intact and leak-free and be resistant to fluids and gasses withstanding high temperatures. Bondloc gasketing products are self-forming gaskets that provide a perfect seal between components, with maximum face-to-face contact, eliminating flange face corrosion.

Used to replace conventional methods used in the assembly industry normally using various pre-cut gaskets, O-ring seals, and profile packings which seal by compression.

ANAEROBIC KEY FEATURES

- Single-component – clean and easy to apply
- Replace conventional gaskets – reduces inventory
- Excellent instant seal fills all voids
- No need for retorquing
- High resistance to solvents
- Resists high pressure when fully cured.

TECHNICAL FEATURES

| | |
|---------------------------------------|--------------------------|
| Base technology | Modified Acrylate |
| Colour | Pink |
| Cure | Anaerobic |
| Viscosity Brookfield Sp7 @5rpm@25°C | 40,000-140,000 cps |
| Gap fill | 0.25mm |
| Cure speed without Activator | 12 hours @ 22°C |
| Cure speed with Activator | 15mins to 2 hours @ 20°C |
| Shelf Life | 24 months @ 22°C |
| Specific Gravity ASTM D1475-13 (2020) | 1.15 |
| Temperature Range | -55°C to +230°C |

TEST PERFORMANCE

| | |
|---|---------------------|
| Full Cure Time | 12 hours @ 22°C |
| Tensile Strength – ISO 4587 | <5N/mm ² |
| Percentage strength retained at: 100°C 135°C 150°C | 50% 25% 20% |

TEST CRITERIA

The test performance data reported was measured according to ISO 4587 using M10 mild steel bolts and cured 24 hours at 22°C (71.6°F) before testing.

PACKAGING FORMAT

Bottles.....50ml, 160ml, 250ml

INSTRUCTIONS FOR USE

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- 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

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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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