

# Gasket Red

## RED GASKET SILICONE SEALANT

### TECHNICAL DATA SHEET

#### SMART ADVANTAGES

- HEAT RESISTANCE UP TO +300°C
- PERMANENTLY FLEXIBLE
- EXCELLENT CHEMICAL RESISTANCE
- LOW SHRINKAGE

#### DESCRIPTION

Bostik Gasket Red is an acetoxy-curing silicone sealant that cures to a permanently flexible, durable rubberized seal capable of withstanding temperature extremes (250°C continuous, 300°C short term exposure). It offers excellent chemical resistance to mineral oil, petrol, transmission fluid, antifreeze, alcohols, dilute acids, and alkalis, soaps and household detergents. The sealant is extremely resistant to UV radiation, weathering and ageing. It also performs as an excellent adhesive on non-porous surfaces where an elastic gap-filling bond is required. It has a non-sag rheology and can be applied to vertical surfaces.

#### APPLICATIONS

- Bostik Gasket Red replaces cork, felt, rubber and asbestos gaskets.
- It is ideal for applications exposed to intense heat, such as automotive, plant pipe and housing gaskets, form-in-place-gaskets, construction of chimneys and heaters, connecting and expansion joints exposed to high temperatures, installation and repairs of ovens.
- FIGP (Formed In Place Gasketing) and CIPG (Cure In Place Gasketing) applications.
- Can be used as an adhesive where an elastic gap filling bond is required.

#### ADHESION

Bostik Gasket Red exhibits excellent primerless adhesion to many non-porous materials e.g. ceramics, glass, enamel, porcelain, coated wood, painted surfaces, stainless steel, aluminium and some plastics (epoxide, polyester, polyacrylate, formica, fiberglass, acrylics, polycarbonates and rigid PVC).

#### LIMITATIONS

- Not suitable for cylinder head gaskets or for parts permanently exposed to fuel.
- Not suitable for some metals i.e. mild steel, lead, copper, tin, galvanized iron, brass or zinc as it may cause corrosion.
- Bostik Gasket Red should not be used in an attempt to replace composite cylinder head gaskets, especially where tolerances are predetermined and are critical to engine performance.
- It should not be used on the back of mirrors, as it will de-silver the mirror backing.
- Will not adhere to some plastics such as polyethylene, polypropylene and Teflon.
- CANNOT be over-painted.

#### SAFETY INSTRUCTIONS

Bostik Gasket Red is non-toxic, however it is advisable to wear gloves in order to avoid direct skin contact. In the event of skin or eye contact, rinse thoroughly and immediately with water. Seek medical assistance if irritation or discomfort persists. The product releases a pungent vinegar-like odour when uncured. Avoid breathing in vapours. Always work in a well ventilated area. Keep out of reach of children! Cured silicone rubber can be handled without any health risk. Refer to our Safety Data Sheets for further toxicological information and comprehensive handling instructions.



**SURFACE PREPARATION**

Ensure surfaces are clean, dry and free of loose materials, dust, grease, rust and other contaminants. Surfaces such as metals and glass should be degreased with a solvent e.g. acetone. Plastics should be lightly abraded with emery paper. Alcohol based cleaners should not be used for cleaning surfaces as alcohol inhibits the cure of silicones. Soaps or detergents used to clean the surface must be rinsed away thoroughly with clean water to ensure that all traces of the soaps are removed before sealing. Use backing material when sealing deep cavities. If the area being sealed needs to be painted, ensure that the paint has dried before applying sealant. You cannot paint over silicone sealant! Poor surface preparation may result in the delamination of the silicone.

**HOW TO USE**

1. Ensure that surfaces are prepared as above.
2. Remove the cap from the tube and pierce film with reverse side of cap, to break the seal. Cut the tip off the nozzle to achieve the desired bead size and screw nozzle on to the tube. Squeeze the tube and apply the silicone at a slight angle in the direction of use. After use, remove the nozzle, wipe clear and replace the cap firmly to avoid any air from entering the tube.
3. Use masking tape to get a clean, even sealant line and to eliminate cleaning difficulties on porous surfaces. Be sure to remove the tape before sealant begins to skin.
4. Remove unwanted silicone immediately.
5. Smooth down after application within 3-5 min before skin formation occurs, by using a flat or rounded tool.
6. Sealant dries to touch in approximately 20 minutes and reaches full cure after approximately 24 hours.

**CLEANING**

- Uncured silicone can be removed from the hands or tools using a clean solvent soaked cloth, e.g. turpentine or paraffin. If removing uncured silicone from clothing, check fabric colour fastness before applying solvents.
- Cured sealant must be removed mechanically with a sharp knife or chemically with Bostik Silicone Stripper.

**STORAGE STABILITY**

Bostik Gasket Red has a shelf life of at least 24 months if stored in a cool (below 25°C), dry place in its original moisture-tight container. If the material is kept beyond the recommended shelf life, it is not necessarily unusable, but a check should be performed to observe whether the product is still workable, apply-able and uncured. To maximize the shelf life of the opened cartridge, we recommend that the nozzle be removed and a piece of plastic placed over the cartridge tip after which the nozzle must be screwed back on. A large screw inserted into the nozzle tip also helps to extend the life. Store in a cool environment.

**PRODUCT PACKAGING**

- 90ml Tube

PRODUCT CHARACTERISTICS	
Type	Acetoxy curing
Appearance	Red, homogenous non sag paste
Density (g/cm <sup>3</sup> ) [ISO 1183-1A]	1.03g/cm <sup>3</sup> at 23°C
TYPICAL PERFORMANCE DATA	
Application temperature	5°C to 40°C
Curing time	Approximately 24 hours per 2mm (25°C, 50% RH)
Skin over time	Approximately 20 minutes (25°C, 50% RH)
Coverage (90ml tube)	3.5 meters (5mm x 5mm joint)
Chemical resistance	Resistant to most diluted mineral and organic acids, alkalis and salts at normal temperatures
Temperature resistance (continuous)	Retains elasticity down to - 40°C and up to 250°C
Temperature resistance - max (short term)	300°C
Water resistance	Waterproof
Modulus at 100% elongation [ISO 8339]	0.45 N/mm <sup>2</sup>
Movement accommodation factor [ISO 11600]	20%
Shore A hardness [ISO 868]	25
Elongation at break [ISO 8339]	250%
Tensile strength [ISO 8339]	>0.7 N/mm <sup>2</sup>

## DISCLAIMER

The above information is only offered as a guide to the use of this product. Furthermore, users should satisfy themselves that it is suitable for their needs. Since we have no control over the conditions under which it is used, we cannot accept responsibility for the problems caused by the use and/or application of this product.

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