Super Gasket

BLACK GASKET SILICONE SEALANT

TECHNICAL DATA SHEET

SMARTADVANTAGES

- HEAT RESISTANCE UP TO +300°C (SHORT TERM EXPOSURE)
- EXCELLENT CHEMICAL RESISTANCE
- NON CORROSIVE TO METALS
- LOW SHRINKAGE
- OUTSTANDING ADHESION TO A WIDE VARIERY OF SUBSTRATES

DESCRIPTION

Bostik Super Gasket is a high quality neutral curing silicone sealant that cures to a permanently flexible, durable rubberized seal capable of withstanding temperature extremes (-60°C to +300°C short term exposure, and 260°C long 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

- Formulated to replace cork, felt, rubber and asbestos gaskets.
- Can be applied to numerous areas, such as axle covers, bearing cap seals, fuel pumps to blocks, intake manifolds, keyway slots, oil filter housing to blocks, window gaskets and seals, bearing plate gasket, engine base gasket, tappet covers, valve covers, water pumps and associative housings.
- It is also suitable to be used in place of lamp cover gaskets, lamp housing gaskets, to seal ignition units and cable entry points.
- FIPG (Formed In Place Gasketing) and CIPG (Cure In Place Gasketing) applications.
- Repairs in ovens.
- Can be used as an adhesive where an elastic gap filling bond is required.

ADHESION

Bostik Super Gasket adheres to all types of alloys and metal used in engine and motor construction. It exhibits excellent primerless adhesion to many non-porous materials e.g. ceramics, glass, enamel, porcelain, coated wood, painted surfaces, canvas, some rubbers, most metals (mild steel, aluminium, lead, copper, tin, galvanized iron, brass or zinc) and some plastics (epoxide, acrylics, polyester, polyacrylate, polystyrene, formica, fiberglass, acrylics, polycarbonates and rigid PVC). Also suitable for use on alkaline surfaces such as concrete, fibrous cement, mortar and plaster.

LIMITATIONS

- Not suitable for permanent immersion in petrol.
- Temperature resistant to a maximum of 300°C (short term exposure)
- Not suitable for replacing of composite cylinder head gaskets, especially where tolerances are predetermined and are critical to engine performance.
- Will not adhere to some plastics such as polyethylene, polypropylene and Teflon.
- CANNOT be over-painted.

SAFETY INSTRUCTIONS

Bostik Super Gasket 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. 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. Use masking tape to get a clean, even sealant line and to eliminate cleaning difficulties on porous surfaces. Remove tape after silicone application before the sealant skins.
3. Remove the cap and pierce seal with reverse side of cap. Cut the nozzle to desired bead size and screw onto tube. Apply silicone at a slight angle in a continuous bead to the prepared joint. After use, remove the nozzle, wipe clear and replace the cap firmly.
4. Remove unwanted silicone immediately.
5. Sealant skins in 15 minutes, dries to touch in 1 hour and reaches full cure after approximately 24 hours.
6. Smooth down after application before skin formation occurs, by using a flat or rounded tool.

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 Super Gasket has a shelf life of at least 18 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	Oxime curing
Appearance	black, homogenous non sag paste
Density (g/cm³) [ISO 1183-1A]	1.07g/cm³ 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 15 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	Retains elasticity down to – 40°C and up to 260°C (long term)
Water resistance	Waterproof
Movement accommodation factor [ISO 11600]	20%
Shore A hardness [ISO 868]	32
Elongation at break [ISO 37]	300%
Tensile strength [ISO 37]	>2.0 N/mm²

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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