

Build

BUILDERS SILICONE SEALANTS

TECHNICAL DATA SHEET

SMART ADVANTAGES

- ACID FREE
- NON CORROSIVE TO METALS
- SUITABLE FOR ALKALINE SUBSTRATES SUCH AS CONCRETE
- LOW ODOUR DURING APPLICATION

DESCRIPTION

Bostik Build is a high quality neutral-curing, low modulus 100% silicone sealant that provides a permanent flexible, durable, watertight seal for general purpose sealing. It has a low odour and does not release acid during curing making it non-corrosive to metals, safe for mirrors and suitable for use on alkaline materials such as concrete, cement, mortar, masonry and plaster. The sealant is extremely resistant to UV radiation, weathering, ageing and water, and offers excellent chemical resistance and is unaffected by alcohols, dilute acids and alkalis, soap and household detergents. The sealant remains flexible over a wide range of temperatures from -40°C to 120°C. 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

- Suitable for internal and external sealing applications, waterproofing and weatherproofing.
- Sealing of connecting and expansion joints in the construction industry e.g. sealing of expansion and connecting joints in walls and floors.
- Sealing of gutters, gutter outlets, and around building flashes.
- Sealing of joints between glazing and supporting structures.
- Perimeter sealing of doors, windows and cladding panels.
- Sealing of double glazed units.
- Mounting of small mirrors.
- Sanitary-ware applications i.e. sealing around bathroom and kitchen fittings, baths, showers and sinks.
- Sealant for the electrical and electronics industries e.g. encapsulation of wires, insulating appliances.
- Sealant in silo and container construction.
- Suitable for bonding and mending tasks where elastic gap filling bond is required.

ADHESION

Bostik Build exhibits excellent adhesion to alkaline surfaces such as concrete, fibrous cement, mortar, and plaster. It also offers excellent primerless adhesion to many non-porous materials e.g. ceramics, glass, enamel, porcelain, coated wood, painted surfaces, canvas, some rubber, most metals (mild steel, stainless steel, aluminum, copper, tin, galvanized iron, brass or zinc) and some plastics acrylics (epoxide, acrylics, polyester, polyacrylate, polycarbonates, polystyrene, formica, fiberglass, polycarbonates and rigid PVC).



LIMITATIONS

- CANNOT be over-painted.
- May become discoloured in contact with some organic elastomers, which tend to bleed oil or solvents into the silicone, e.g. EPDM, APTK, Neoprene and Bituminous surfaces.
- Not suitable for contact with natural stone i.e. marble, granite, quartzite as it may discolour the surfaces.
- Will not adhere to some plastics such as polyethylene, polypropylene and Teflon.
- NOT SUITABLE FOR FISH TANKS (contains a fungicide).
- Do not apply sealant when relative humidity is below 10% - cure rate will be affected.

SAFETY INSTRUCTIONS

Bostik Build 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. 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. Cut the tip off the cartridge and screw on the nozzle. Cut the tip of the nozzle at an angle to achieve the desired bead size. Apply with a caulking gun in a continuous bead to the prepared joint.
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 1 hour 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 Build 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

PRODUCT PACKAGING

- 280ml Cartridge

TECHNICAL DATA SHEET

PRODUCT CHARACTERISTICS

Type	Neutral cure
Appearance	Homogenous non sag paste – clear or grey colour
Density (g/cm ³)	1.03g/cm ³ at 23°C [ISO 1183]

TYPICAL PERFORMANCE DATA

Application temperature	5°C to 40°C
Skin over time	Approx. 15 minutes [ISO 7390, Profile U20]
Curing time	Approx. 24 hours per 2mm
Coverage	5 linear meters (4mm x 4mm joint)
Chemical resistance	Resistant to most diluted mineral and organic acids, alkalis and salts at normal temperatures
Temperature resistance	- 40°C to 120°C
Water resistance	Waterproof
Tear strength	4.0 N/mm ² [ISO 34 Method C]
Tensile strength	0.6 N/mm ² [ISO 8339]
Modulus at 100% elongation	0.36 N/mm ² [ISO 8339]
Elongation at break	300% [ISO 8339]
Movement accommodation factor	25% [ISO 11600]
Shore A hardness	18 [ISO 868]

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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