



# Maxi Bond Seal

## TECHNICAL DATASHEET

Version: 2018-11-01

### PRODUCT DESCRIPTION

Maxi Bond Seal is an elastic grab adhesive and grout ( $\pm 20\%$  movement) with a wide range of applications and good environmental properties on SMP base. It is ideal for building projects and situations that set high standards of environmental performance and materials with low emissions. Hardens aided by humidity in the air to an elastic adhesive grout that retains movement even when exposed to damp, sunlight and cold climates. Can replace many other types of adhesive and grouts (silicone, wood adhesive, contact adhesive, acrylic grout, PU grout, filler, knot filler, window putty, special grouts for natural stone etc.) in most situations, as it has: - high adhesion to most material types - high resistance to weather and physical stress - does not chemically affect or precipitate to the substrate - resists mould growth in wet rooms - Acts as a paintable surface for most paint types - Frost-proof; can be kept close to the workplace Adhesion performance Final tensile strength: 280 ton/m<sup>2</sup> Initial tensile strength: 50 kg/m<sup>2</sup> Final shear strength: 160 ton/m<sup>2</sup> Mounting hook/wall mounted: 50 kg/m<sup>2</sup>

### AREA OF USAGE

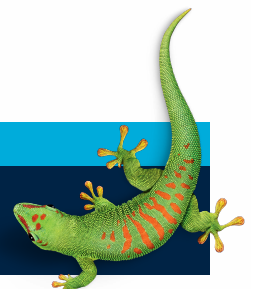
Maxi Bond Seal is used to grout, fill, seal and glue most material types on wet and dry substrates, indoors and outdoors when a resistant and flexible adhesive or grout is needed. Apart from general grouting and gluing to common building materials, Maxi Bond Seal is also ideal for: - Grouting against natural stone (marble and granite) - Top sealing and putty for glass and windows - Grouting and gluing in wet rooms, including wet zones - Caulking wooden decks indoors and out - Movement-tolerant grout for various types of floors in concrete, wood or PVC sheets - Glues and seals roof tiles, sheet metal and gutters! Adheres in principle to all building materials such as: wood, metals (painted and untreated), concrete, metal, ceramics, glass, stone, marble and plastic (not PE/PP/PFTE).

### WORKING INSTRUCTION

Maxi Bond Seal has a wide range of applications as an adhesive, grout and sealant. See below for various areas of application. Adhesive Surfaces must be clean, dry and non-greasy for the best result. Cut off the cartridge tip to the appropriate size. Apply to one surface using a cartridge extruder. Press the surfaces together within 10 min and fix. When gluing solid materials, apply moisture when the grout/join is wider than 50 mm. Wider gaps can mean that the grout does not dry fully and reach full strength. Apply moisture by carefully spraying water on a film of adhesive or grout. The strength of a grout can never be higher than the bearing capacity of the substrate. Always test-adhere plaster or rubber. The product will not adhere to PP/PE/PTFE plastics. Grout sealant - with limited need for movement tolerance Surfaces should be free of grease and dust for best results. Remove oil and grease residue, especially on metal, glass etc. High humidity in concrete and tree reduce adhesion. White paint on metal and wood is unsuitable as a substrate. Use masking tape to avoid covering surrounding areas with grout. Remove masking tape once the grout surface is smooth. Maximum adhesion is achieved when the grout is filled well by extrusion without air bubbles and the grout surface is then pressed by smoothing to make sure the material is in full contact with the surfaces. Moisten a finger with soapy water to smooth the surface. Remove masking tape immediately. Grouting that requires movement tolerance. Surfaces must be free of grease and dust. Remove oil and grease residue, especially on metal, glass etc. High humidity in concrete and wood reduce adhesion. White paint on metal and wood is unsuitable as a substrate. Primer: When grouting an absorbent substrate, such as concrete and untreated wood, use Primer 5075. We recommend Bostik Cleaner & Activator to prepare and clean non-absorbent surfaces such as glass, ceramics, galvanised sheet metal, aluminium, polyester, PVC and painted surfaces. Backing material: - Grout can be backed with Bostik Backing Rod and fixed at the correct grout depth (See Grout Dimensioning). To avoid damaging the backing rod, which can cause unevenness in the grout, fit the rod with a blunt, smooth tool or roller. In grouts with a fixed back where there is no room for backing rod, lay smooth

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foam profiles or polyethylene tape to prevent the grout seal and adhering to the grout back. Unsuitable backing material includes those containing oil, tar or bitumen, hemp or mineral wool. The grout edges can be masked with tape if required, which must be removed as soon as grouting is complete. Grout Dimensioning: - It is extremely important that the grout width at the construction site be correctly dimensioned with regard to both expected movement of the grout and maximum permitted movement of the sealant ( $\pm 20\%$  pressure and tensile strength for Bostik Maxi Bond Seal). As a general rule for grout dimensioning on movable grouts using this grout seal, the grout width/depth ratio should be 2:1 (grout depth = half the grout width). The grout width should not exceed 30 mm or be less than 5 mm (grouts on concrete elements always have to be wider). Read Bostik's guide on "Grout shape and execution" for correct grout shape. Grouting vertical or horizontal surfaces requires different techniques. Applying grout sealant: - Maximum adhesion is achieved when the grout is filled well by extrusion without air bubbles and the grout surface is then pressed by smoothing to make sure the material is in full contact with the surfaces. Post-application: - Smooth the surface of the grout using a Bostik grout stick dipped in soapy water. Ensure that the water does not get between the grout edge and the paste. You can best achieve this by smoothing from the bottom and upwards. Puttying windows New window frames: Maxi Bond Seal can be used without spar primer on untreated and glazed, impregnated and fully painted wooden frames. Old window frames: All loose putty should be removed using a sharp tool such as a chisel. Clean the rebate using T-röd. Where old putty is firmly stuck, scrape 2-3 mm close to the glass and the outer part of the rebate. This will allow the grout sealant to adhere optimally to the glass and the wood. Apply Maxi Bond Seal directly into the putty rebate from a cartridge using Hand Extruder H14, H40 or H45 for replacing old putty and on new glazing. Adjust the plastic nozzle diameter to the width of the rebate. If replacing old putty, apply the product on top of the old solidified putty in a layer about 2 mm thick and with contact between the wooden rebate's outer edge and the glass. The product should form a triangle between the window frame and glass for new glazing. It is important that Maxi Bond Seal make good contact with the frame rebate and glass. If necessary, the rebate can be smoothed over with a grout stick or putty knife dipped in weak soapy water. The grout can be painted over once the surface is dry (see technical properties).

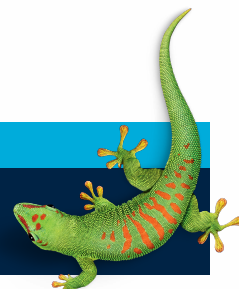
## SAFETY

In accordance with the law, the product contents are not a health or fire risk. The product has indoor environment classification M1 and does not contain biocides. For more details, see safety data sheet.

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## TECHNICAL DATA

Properties before application	
Amount to use	Glue string 5 mm dia. 15 m/l
Fire hazard	No
Application	Hand extruder
Properties after application	
Cleaning	Non-hardened adhesive can be removed using Bostik Adhesive Cleaner, Methylated spirits or white spirits. Remove dried adhesive mechanically.
Surface hardening	30 min at 23°C, 50% RH. Can be worked after around 15 min.
Hardening	1 day = 4 mm 7 days = 15 mm
Adhesion growth	Full adhesion achieved after 4–7 days, depending on construction, temperature and humidity
Temperature resistance	-30°C to 80°C, short-term 90°C
Hardness	around 40° Shore A, 14 days, +25°C, 50% RH
Moisture resistance	Very good on dried adhesive grout
Ageing resistance	Very good
Chemical resistance	Good when in contact with diluted acids, lye and solvents
Overpainting	Yes, with water-based dispersion paints. Test a small area for other paints.

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