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# MATRIX 500 SEALANT

## POLYURETHANE BASED SEALING COMPOUND

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BOSTIK MATRIX 500 SEALANT is a single part, general purpose polyurethane-based sealing compound which cures by reaction with atmospheric moisture. The cured sealant is rubbery and highly elastic and, in general, can be overpainted.

BOSTIK MATRIX 500 SEALANT is available in a colour range of white, black, grey and brown and is supplied in ready to use cartridges suitable for hand gun application.

### RECOMMENDED USE

BOSTIK MATRIX 500 SEALANT is suitable for sealing both internal and external joints on a wide variety of materials including concrete, stone, wood, metals, ceramic tiles, enamelled substrates, GRP and many plastics. Very porous substrates may require priming with Matrix Porous Substrate Primer prior to sealant application. Consult Bostik Ltd for additional information.

Typical applications are joint sealing in building constructions and general coach building and industrial sealing applications. BOSTIK MATRIX 500 SEALANT is not suitable for glazing insulating glass units.

### JOINT DESIGN CONSIDERATIONS

For conventional construction joints subject to movement it is important that the dimensional proportions of the joints are correct. These should be:-

<u>Width</u>	<u>Depth mm</u>
4 to 6	6
8	8
10	10
15	10
20	12
25	15
30	15

### APPLICATION INSTRUCTIONS

**JOINT PREPARATION:** Ensure that the joint surfaces are dry and clean, being free from dust and grease. When necessary degrease metal surfaces using a Cleaner/Thinner recommended by BOSTIK FINDLEY LTD. Customer Service Department. Remove residues of mortar or cement mechanically, also weathered paint on metal and wood.

Where appropriate, prefill joints with a cross linked polyethylene foam to give the required joint depth for the sealant. Materials containing oil, tar or bitumen, also hemp and mineral wool, are unsuitable as prefillers.

Prime joint surfaces if necessary.

**SEALANT APPLICATION:** Ambient temperature should be in the range 5 to 35°C. The temperature of the sealant itself should not be lower than 10°C to avoid difficulty in extrusion. When necessary sealed cartridges may be warmed up, preferably to a temperature of 15 to 20°C, in a water bath.

Pierce the membrane at the top of the cartridge and screw on the nozzle, having previously cut this to give the required bead size. Place the cartridge in a suitable BOSTIK extrusion gun, and press the trigger. Apply the sealant smoothly, with even pressure, along the prepared joints. Smooth down the applied sealant, when necessary, using a spatula or similar tool which has been dipped in water containing a little detergent.

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Bostik Findley Limited, Ulverscroft Road, Leicester, LE4 6BW England. Tel: +44 (0)1785 272727 Fax: +44 (0)116 253 1943

[www.Bostik-Findley.co.uk](http://www.Bostik-Findley.co.uk)

**TYPICAL CURE TIME:** 24 hours at 23°C/50%RH for a 3 to 4mm thick sealant section but varying according to sealant thickness, ambient temperature and relative humidity.

**COVERAGE:** Determine the cross-sectional area of the joint, then calculate from the formula:-

$$\text{metre run per cartridge} = \frac{310}{\text{cross - sectional area in mm}^2}$$

**CLEANER:** Use BOSTIK CLEANER/THINNER N (M576) for removal of surplus uncured sealant.

### TYPICAL CHARACTERISTICS

Physical Form:	Non-slump paste
Colours:	White, black, grey and brown
Odour:	“White spirit”
Chemical Type:	Moisture curing polyurethane based compound
Solvent:	Hydrocarbon
Viscosity:	Easily extrudable
Solids Content:	95% approximately
Specific Gravity:	1.2 approximately
Temperature Resistance:	-40 to +90°C according to service conditions. Will withstand higher temperatures, up to 120°C maximum for short periods
Water Resistance:	Good
Resistance to UV & Sunlight:	Good (white version may yellow)
Hardness:	Approx. 40° Shore A
Combustibility:	Will burn if ignited.

### PACKAGING

Please refer to Customer Service Department for current package sizes.

### STORAGE

Store under dry conditions between 10 and 25°C.

Keep containers tightly closed and do not allow moisture ingress.

### SHELF LIFE

12 months from date of manufacture, under the above conditions of storage.

### MATERIAL SAFETY DATA

For further information refer to the relevant Health and Safety Data Sheet.

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