



## PRODUCT DATA



Date: July 2001

Information Sheet No.: B1076-5

# MATRIX 600 FC SEALANT

## POLYURETHANE-BASED SEALING COMPOUND

BOSTIK MATRIX 600 FC SEALANT is a single part, polyurethane-based sealing compound which cures at a fast rate by reaction with atmospheric moisture. The cured sealant is rubbery, highly elastic, sandable and in general can be overpainted.

The sealant is available in white, black and grey, and is supplied in "ready to use" cartridges suitable for hand gun application.

### RECOMMENDED USE

BOSTIK MATRIX 600 FC SEALANT is suitable for sealing both internal and external joints on a wide variety of materials including wood, most common metals, enamelled substrates, GRP and many plastics. Typical applications are the general industrial and coach building applications where a fast curing product is required.

Very porous substrates may require priming with Matrix Porous Substrate Primer before sealant application. Consult Bostik Findley Ltd. for additional information.

### BONDING INSTRUCTIONS

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

**N.B** It is not recommended for the glazing of insulating glass units.

#### Joint Preparation

Ensure that the joint surfaces are dry and clean, being free from dust and grease. When necessary, degrease metal surfaces with BOSTIK CLEANER/THINNER T/MOD (6104) CLEANER/THINNER (non-flammable).

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.

#### Sealant Application from Cartridge.

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

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Using a suitable tool carefully remove the aluminium sealing disc from the bottom of the cartridge. 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.

Typical Cure Time

24 hours at 23°C/50% RH for a 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:

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

Cleaner

Use BOSTIK CLEANER/THINNER N(M576) or T/MOD(6104) for removal of surplus uncured sealant.

**TYPICAL CHARACTERISTICS**

Physical Form:	Non-slump paste
Colour:	White, black or grey
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. 50° Shore A
Combustibility:	Will burn if ignited

**PACKAGING**

Please refer to Customer Service Department for current package sizes.

**STORAGE**

Store Under dry condition between 10 and 25°C. Protect from heat sources. 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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