



Plastiseal

Rubber-bitumen gun applied sealant

Uses

- For sealing joints in flashings, guttering and sheet laps
- Irrigation channels
- Open water retaining structures
- An integral part of the Proofex waterproofing system

Advantages

- Firm flexible weather resistant seal
- Excellent slump resistance
- Excellent immersed adhesion
- Compatible with asphalt or bituminous surfaces
- Unaffected by alkalis or sulphates
- Easily gunned
- Suitable for joints up to 40 mm wide

Description

Plastiseal is a flexible rubber-bitumen joint sealant with excellent slump resistance. Plastiseal sets to form a firm seal after application, developing a non-tacky surface within 1 or 2 days depending upon the conditions of exposure and ventilation. For large projects, such as sealing joints in irrigation canals, Plastiseal can be supplied in 180 litre drums for application from the drum by a Graco, or similar, air operated pump.

Technical support

Fosroc offers a comprehensive range of high performance, high quality technical products, manufactured in accordance with a BS EN ISO 9001 registered quality scheme. In addition Fosroc offers a technical support package to specifiers and contractors which includes computer-aided design (CAD), standard details as well as on-site technical advice from staff with unrivalled experience in the industry.

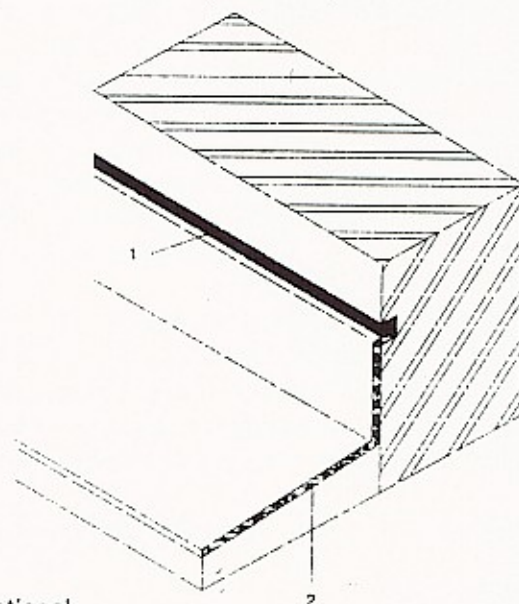
Design criteria

Joint size : Joints should be of a size to permit adequate application of Plastiseal. Very narrow joints are difficult to seal effectively and for most applications 10 mm should be considered the minimum width. Maximum recommended width is 40 mm. A minimum seal depth of 15 mm must always be maintained.

To ensure that the sealant operates within its stated movement capacity (MAF 10% in butt joints) the sealing slot widths should be designed in accordance with the recommendations of BS 6093.

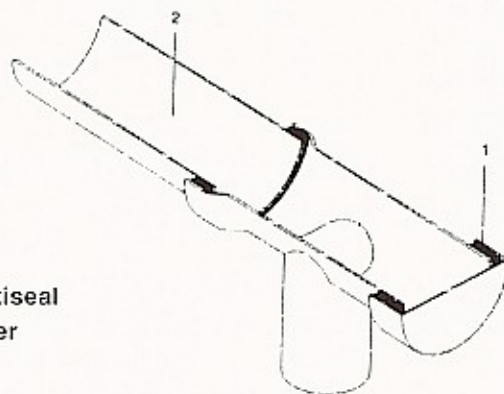
The use of Fosroc Primer 3 is always recommended on porous surfaces.

Example of a sealed roof perimeter joint is shown below



- 1 Plastiseal
- 2 Asphalt, bituminous or other roof finish

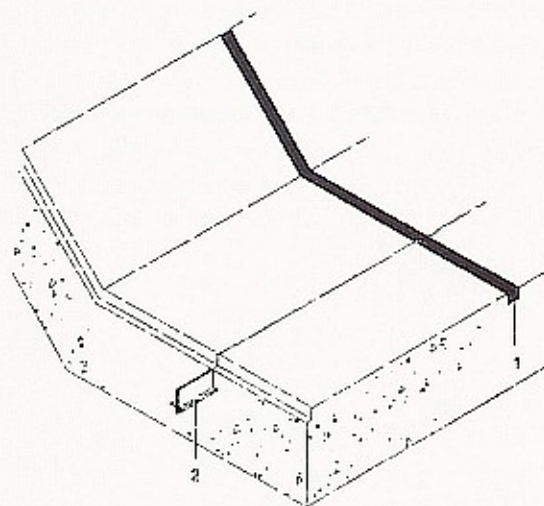
Example of sealed joint in guttering is shown below



- 1 Plastiseal
- 2 Gutter



Example of a sealed transverse joint in an irrigation canal (showing longitudinal joint incorporating special canal joint crack inducing waterstop)



- 1 Plastiseal
2 *Special PVC section

* Also available from Fosroc.

Properties

Form:	Semi-stiff paste	
Colour:	Black	
Movement accommodation factor (BS 6093):	10% for butt joints, 20% for lap joints	
Physical or chemical change:	Solvent release	
Setting time:	24 to 48 hours depending on conditions of exposure	
Application temperature:	5°C to 50°C	
Chemical resistance to occasional spillage:	Dilute acids	resistant
	Dilute alkalis	resistant
	Solvents	not resistant
	Petroleum	not resistant
	Lubricants	not resistant
Water immersion:	Before permanent immersion in water plastiseal must be left for a minimum period of 14 days to permit evaporation of its solvent content, this is dependent upon ambient conditions and depth of the Plastiseal	
Solids content:	90 % minimum	
Density:	1.5 kg/litre	
Flash point:	61°C	

Maintenance

No special requirement, damage should be repaired if and when it occurs.

Specification clauses

Joints shall be sealed, where designated, using Plastiseal, a rubber-bitumen sealant, manufactured and supplied by Fosroc. The sealant shall be applied strictly in accordance with the manufacturer's current technical data sheet.

Application instructions

Joint preparation

Ensure that the joint surfaces are completely dry, clean and frost-free. Remove all dirt, dust, laitance and loose material by rigorous wire brushing. Remove all rust, scale and protective lacquers from metal surfaces. Remove any oil or grease with Fosroc Joint Cleaner.

Gun loading

Cut conical tip off cartridge and thread, screw on nozzle, cut at 45 degrees to required size and fit into sealant gun.

Expansion joints

Plastiseal must always be supported by a firm backing to allow free movement. Where a particularly neat finish is required, cover face edges of joint with masking tape before priming and remove immediately after sealing work is completed.

Priming porous surfaces

Use Fosroc Primer 3 on concrete, stone, brickwork, timber and unglazed edges of ceramic tiles. Allow primer to become touch-dry before sealing, normally 1 to 4 hours.

Priming non-porous surfaces

Not normally required. Ferrous metals should be treated with an anti-corrosion primer.

Cleaning

Clean up equipment immediately after use with Fosroc Equipment Cleaner, white spirit or paraffin. Remove Plastiseal from the hands with 'Kerocleanse 22', 'Swarfega' or similar industrial hand cleanser.

Ancillary materials and equipment

Fosroc Primer 3.
Fosroc Joint Cleaner.
Fosroc Equipment Cleaner.
Fosroc 'W' Gun.
Fosroc Expaseal non-drip gun.

Contract application

The designer or contractor may wish to use the services of a specialist sub-contractor for joint sealing work. Names of preferred sub-contractors are available from Fosroc.

Limitations

Plastiseal should not be used in closed tanks or reservoirs where poor ventilation will seriously inhibit evaporation of solvent from the Plastiseal.

Estimating

Packaging

Plastiseal is supplied in boxes of 12 cartridges, 4.8 litres approximately.

Alternatively, 25 litre and 180 litre drums can be supplied to special order.

Guide to Plastiseal quantities

These are theoretical yields without allowance for joint size variation or wastage.

Joint size in mm w x d	Litre per metre run	Metre per 0.4 litre cartridge	Metre per box (4.8 litre)
10 x 15	0.15	2.70	32.0
20	0.20	2.00	24.0
15 x 15	0.23	1.80	21.6
20	0.30	1.30	15.6
20 x 15	0.30	1.30	15.6
20	0.40	1.00	12.0
25	0.50	0.80	9.6
25 x 15	0.38	1.10	13.2
20	0.50	0.80	9.6
25	0.63	0.64	7.6
30 x 25	0.75	0.53	6.3
30	0.90	0.44	5.2
35 x 25	0.88	0.46	5.5
30	1.10	0.38	4.5
40 x 25	1.00	0.40	4.8

Storage

Storage life of 12 months in original containers when kept in dry conditions between 5°C and 27°C.

Precautions

Health and safety

Plastiseal: This product is flammable. Keep away from sources of ignition - No Smoking. Avoid inhalation of vapours. Wear suitable protective clothing, gloves and eye/face protection. Use only in well ventilated areas.

Fosroc Primer 3: Highly flammable liquid. Keep away from sources of ignition - No Smoking. Harmful by inhalation and in contact with skin. Avoid contact with skin and eyes and inhalation of vapours. Wear suitable protective clothing, gloves and eye/face protection. Use only in well ventilated areas.

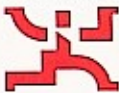
Fosroc Joint Cleaner and Fosroc Equipment Cleaner: Flammable liquid. Keep away from sources of ignition No Smoking. Avoid contact with skin and eyes and inhalation of vapours. Wear suitable protective clothing, gloves and eye/face protection. Use only in well ventilated areas.

For additional information see relevant Product Safety Data Sheet.

Additional information

Technical data – ancillary materials

	Fosroc Primer 3	Fosroc Equipment Cleaner	Fosroc Joint Cleaner
Flash point:	-7°C	44°C	44°C
Density:	0.85 kg/litre	0.87 kg/litre	0.859 kg/litre
Storage life:	12 months	Indefinite	Indefinite
Coverage:	12.5 m ² /litre	–	–
Application			
temperature:	5°C to 50°C	–	–
Drying time:	1 to 4 hours at 25°C	–	–
Pack size:	0.5, 5 and 25 litre	5 litre	2.5 litre

FOSROC

As well as joint sealants and ancillary products, Fosroc also manufactures a wide range of complementary products which includes waterstops, waterproofing membranes, grouting, anchoring and specialised flooring materials. In addition a wide range of products specifically designed for the repair and refurbishment of damaged reinforced concrete is available. This includes hand placed and spray grade repair mortars, fluid micro-concretes, chemical resistant epoxy mortars and a comprehensive package of protective coatings.

Plastiseal is the trade mark of Fosroc International Limited

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