

Hand applied polymer modified bitumen sealant

Uses

Fosroc Plastijoint is recommended for sealing joints, particularly vertical and inclined joints, in most types of water retaining structures.

- Reservoirs
- Sewage disposal works
- Irrigation canals
- Sea walls
- Retaining walls (brickwork and concrete)
- Subways and basement structures
- An integral part of the Proofex waterproofing system

Advantages

- Designed for permanent immersion in water
- Tough, weather resistant seal
- Excellent slump resistance
- Easily applied by hand
- Suitable for joints up to 40 mm wide
- Resistant to bacteriological attack

Standards compliance

British Standard BS 6920:1988

Water Bye-laws scheme - Approved Product Listing No. 8810511.

Description

Plastijoint thermoplastic polymer modified bitumen based putty requires heating to make it workable. On cooling it gives a slump free, flexible seal.

Plastijoint is suitable for immersed joints including those where biological activity occurs.

Plastijoint is suitable for sealing joints, including low movement expansion joints, in retaining walls, basements etc.

Technical support

Fosroc offers a comprehensive technical support service to specifiers, end users and contractors. It is also able to offer on-site technical assistance, an AutoCAD facility and dedicated specification assistance in locations all over the world.

Design criteria

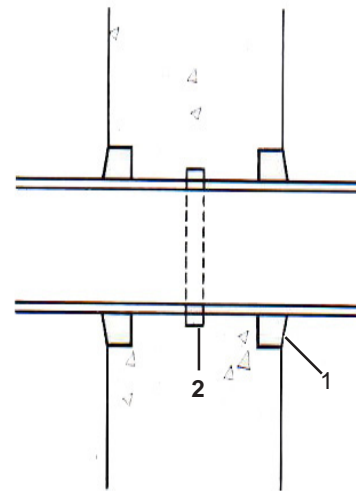
Joint size: Plastijoint may be applied to joints between 20 and 40 mm wide. In most cases it is advisable to form a sealing slot approximately square in cross-section.

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 Primer 3 is always recommended on porous surfaces.

Where expansion joints are subject to hydrostatic head, Plastijoint seals require support from a compressible filler such as Hydrocell XL*.

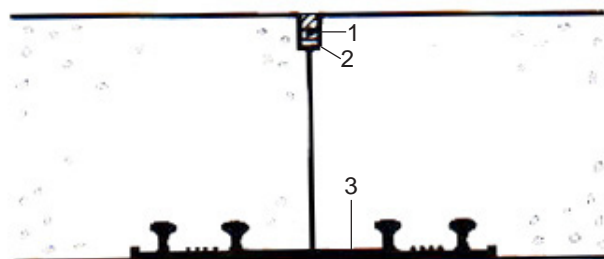
Joints in building services: Plastijoint is suitable for sealing around pipe or cable entries into buildings.

Example of sealed pipe or cable entry into a building is shown below:



1. Plastijoint
2. Supercast SW*

Example of sealed construction joint in water retaining structure, basement, etc, is shown below



1. Plastijoint
2. Bond breaker tape
3. Supercast Rearguard 'R' waterstop*

* Also available from Fosroc

Fosroc Plastijoint

Typical properties

Solids content	:	100%
Penetration 25°C	:	70 to 90 dmm (needle)
Movement		
accommodation factor (BS 6093)	:	10% for butt joints
Application temperature	:	5 to 50°C (Plastijoint heated to 45 to 55°C)
Biological resistance	:	Plastijoint is resistant to aerobic and anaerobic conditions normally occurring in sewage treatment works
Chemical resistance to occasional spillage		
	:	Dilute acids resistant
	:	Dilute alkalis resistant
	:	Petroleum solvents non resistant
	:	Mineral oils non resistant
	:	Vegetable oils non resistant

Fosroc Primer 3

Application temperature	:	5 to 50°C
Drying time	:	1 to 4 hour @ 25°C

Specification

Joints shall be sealed, where designated, using Plastijoint, bitumen putty manufactured and supplied by Fosroc International. The material shall be applied strictly in accordance with the manufacturer's current technical data sheet.

Instructions for use

Plastijoint is applied by hand after it has been heated. Tins of Plastijoint must be heated in boiling water or field ovens, not by direct heat.

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 Solvent 102. In expansion joints, Plastijoint must always be supported by a firm backing which allows 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.

Heating

Tins of Plastijoint are heated to 45 to 55°C by placing in a field oven or in boiling water for approximately 1 hour. When using water, the water level should only come almost to the top of the tin (leave the lid on). Plastijoint must not be subjected to direct heating.

Priming

Porous surfaces

On concrete, stone, brickwork and timber, Primer 3 is required. The applied primer should be touch dry before sealing.

Non-porous surfaces

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

Application

Take a convenient quantity of material from the tin and mould by hand into a strip. While still hot, push this well down into the cavity to fill all crevices, ensuring good contact with the sides and base of the joint. If necessary caulk home with a piece of damp wood.

Note: If there is honeycombed concrete in the immediate vicinity of the joint, there is the risk that water under pressure may percolate behind the seal and pass into the joint. In such cases, prime the area concerned and apply additional sealant, working well into all cavities to give a 'mushroom' finish. Joints subject to flowing water should be finished flush or slightly concave.

Finishing

Heat a stripping knife and, working along the joint, cut away excess material to present a neat finish. In cold weather a gas blow torch may be run down the seal before trimming. Plastijoint requires no special tools, but the use of a caulking iron is recommended for easy consolidation and to give a neat finish to the seal. Normally Plastijoint will be finished flush.

Cleaning

Clean up equipment immediately after use with Solvent 102, white spirit or paraffin. Care should be exercised in the use of solvents. Appropriate precautions should be taken. For Solvent 102, refer to Fosroc's Health and Safety data sheet.

Maintenance

No special requirements. Any damage should be made good as and when it occurs.



Fosroc Plastijoint

Estimating

Supply

Plastijoint	:	5 litre tins
Primer 3	:	5 litre pack

Larger sized packing can be supplied to special minimum order.

Guide of Plastijoint quantities

Joint size in mm	Litre per metre	Metre per 5 litre	Joint size in mm	Litre per metre	Metre per 5 litre
20 x 20	0.40	13.0	30 x 50	1.50	3.3
25	0.50	10.0	35 x 25	0.88	5.7
30	0.60	8.3	30	1.10	4.8
25 x 20	0.50	10.0	40	1.40	3.6
25	0.63	8.0	50	1.80	2.9
30	0.75	6.7	40 x 25	1.00	5.0
40	1.00	5.0	30	1.20	4.2
30 x 250.75	6.7	50	2.00	2.5	40

1.204.2

Primer coverage: 500ml of Primer 3 is sufficient for approximately 2 x 5 litre tins of Plastijoint.

Storage

Plastijoint has a 2 year shelf life when stored in cool dry conditions in unopened original containers.

When stored in cold stores Primer 3 will have a shelf life of 12 months.

Precautions

Health and safety

There are no health hazards associated with Plastijoint in normal use, however, prolonged skin contact should be avoided.

Remove Plastijoint from the hands with 'Keroclense 22', 'Swarfega' or similar industrial hand cleanser.

Primer 3 and Solvent 102 should not come in contact with the skin and eyes, or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Wear suitable protective clothing, gloves and eye protection.

In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed seek medical attention immediately - **do not** induce vomiting.

Fire

Primer 3 is a highly flammable, and Solvent 102 is also flammable. Keep away from sources of ignition. No smoking. In the event of fire extinguish with CO₂ or foam. Do not use a water jet.

Flash points

Primer 3	:	-1°C
Solvent 102	:	33°C

For additional information see relevant Material Safety Data Sheet.

Plastijoint

Additional Information

Fosroc manufactures a wide range of complementary products which include :

- waterproofing membranes & waterstops
- joint sealants & filler boards
- cementitious & epoxy grouts
- specialised flooring materials

Fosroc additionally offers a comprehensive package of products specifically designed for the repair and refurbishment of damaged concrete. Fosroc's 'Systematic Approach' to concrete repair features the following :

- hand-placed repair mortars
- spray grade repair mortars
- fluid micro-concretes
- chemically resistant epoxy mortars
- anti-carbonation/anti-chloride protective coatings
- chemical and abrasion resistant coatings

For further information on any of the above, please consult your local Fosroc office - as below.

* Denotes the trademark of Fosroc International Limited

† See separate data sheet



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Important note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Service. **All Fosroc datasheets are updated on a regular basis. It is the user's responsibility to obtain the latest version.**

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