

Expanseal* Mastic

Rubber-bitumen cold applied joint sealant

Uses

- For sealing joints in flashings, guttering, sheet pile interlock joints, sheet laps etc.
- Irrigation channels, rigid / asphalt pavement
- Open water retaining structures
- An integral part of the waterproofing system

Advantages

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

Description

Expanseal * Mastic is a flexible rubber bitumen joint sealant with excellent slump resistance. For large projects, such as sealing joints in irrigation canals, rigid and asphalt pavement, Expanseal* Mastic supplied in tins and drums packing.

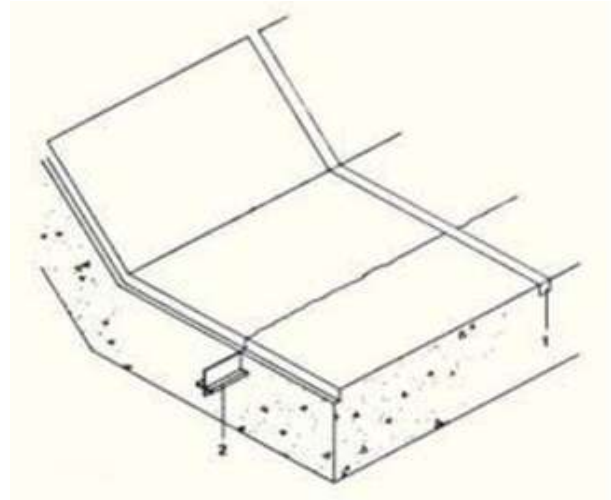
Design criteria

Joint size: Joints should be of a size to permit adequate application of Expanseal* Mastic. 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.

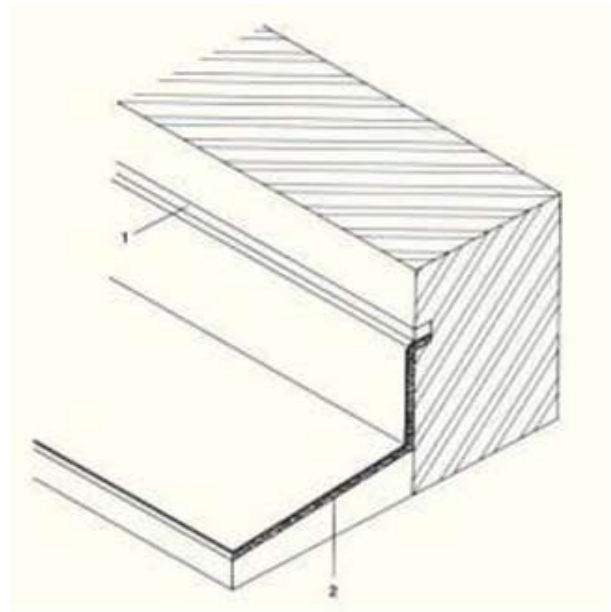
The use of Expanprime*3 is always recommended on porous surfaces.

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



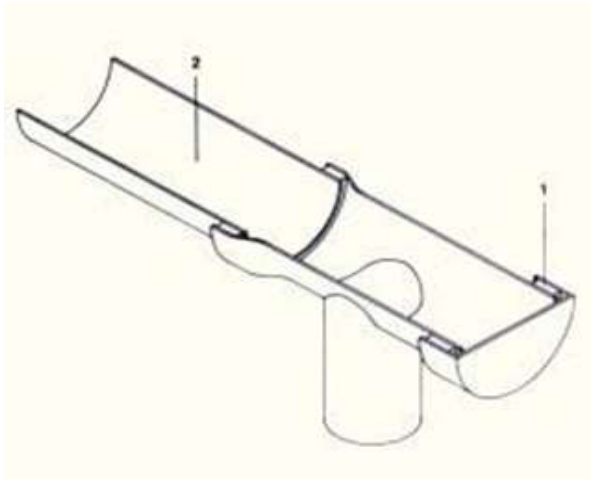
- 1 Expanseal* Mastic
- 2 Special PVC section

Example of a sealed roof perimeter joint is shown below



- 1 Expanseal* Mastic
- 2 Asphalt, bituminous or other roof finish

Example of a sealed joint in guttering shown below.



- 1 Expanseal* Mastic**
2 Gutter

Properties

Form	: Semi-stiff paste
Colour	: Black
Movement accommodation factor BS 6093	: 10% for butt joints 20% for lap joints
Setting time	: 24 to 48 hours depending on conditions of exposure
Application temperature	: 5 to 50°C
Solids content	: 90% minimum
Physical or chemical change	: Solvent release
Chemical resistance to occasional spillage	: Dilute acids resistant Dilute alkalis resistant Solvents not resistant Petroleum not resistant Lubricants not resistant

Expanprime*3

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

Specification

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

Instructions for use

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.

Gun loading

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

In expansion joints, Expanseal* Mastic 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 Expanprime*3 on concrete, stone, brickwork, timber and unglazed edges of ceramic tiles. Allow Expanprime*to become touch dry before sealing, normally 1 to 4 hours at 25°C.

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 Solvent 102, white spirit or paraffin.

Maintenance

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

Limitations

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

- Before permanent immersion in water, Expanseal* Mastic 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 Expanseal* Mastic.

Technical support

Expanchem Fospak 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.

Estimating

Supply

Expanseal * Mastic : 5 & 25 Kg. Tin

Expanprime*3 : 5 litre pack

Coverage

Expanprime*3 : 12.5 m²/litre

Guide to Expanseal* Mastic quantities

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

Joint size in mm wxd	Litre per metre run	Metre per 400 ml	Metre per 25 litre
10 x 15	0.15	2.60	166.60
20	0.20	2.00	125.00
15 x 15	0.23	1.80	108.70
20	0.30	1.30	83.30
20 x 15	0.30	1.30	83.30
20	0.40	1.00	62.50
25	0.50	0.80	50.00
25 x 15	0.38	1.10	65.70
20	0.50	0.80	50.00
25	0.63	0.64	39.70
30 x 25	0.75	0.53	33.30
30	0.90	0.44	27.70
35 x 25	0.88	0.46	28.40
30	1.10	0.38	22.70
40 x 25	1.00	0.40	25.00

Storage

Expanseal* Mastic will have a shelf life of 12 months when stored in dry conditions below 50°C.

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

Precautions

Health and safety

Expanseal* Mastic, Expanprime*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.

Remove Expanseal* Mastic from the hands with 'Kerocleanse 22', 'Swarfega' or similar industrial hand cleanser.

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

Fire

Expanseal* Mastic, Expanprime*3 and Expanchem Solvent 102 are flammable. Keep away from sources of ignition. No smoking. In the event of fire extinguish with 2 or foam. Do not use a water jet.

Flash points

Expanseal* Mastic : 61°C

Expanprime*3 : -1°C

Expanchem Solvent 102 : 33°C

For additional information see relevant Safety Data Sheet.



Additional Information

Expanchem manufactures a wide range of complementary products which include :

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

Expanchem additionally offers a comprehensive package of products specifically designed for the repair and refurbishment of damaged concrete. Expanchem'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 Expanchem office - as below.

* Denotes the trademark registered.

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