

# Estojoint

## Hand Applied Flexible Bituminous Putty

### Description

**Estojoint** is a thermoplastic bitumen-based putty designed to provide a slump free, flexible seal. It requires heating for workability.

**Estojoint** is suitable for immersed joints, including low movement expansion joints in retaining walls, reservoirs and where biological activity occurs.

**Estojoint has been tested by SIRIM BHD, in accordance to BS 6920, on the suitability for contact with drinking water, and complied with the specification in this data sheet.**

### Uses

**Estojoint** is recommended for joint sealing, particularly vertical and inclined joints. It is highly recommended for used in water retaining structures.

**Estojoint** is used for sealing joints in:

- Sewerage disposal works
- Water retaining structures, reservoirs
- Basement structures and subways
- Water excluding structures
- Retaining wall and tunnel

### Advantages

- Easily applied by hand
- Excellent slumps resistance
- Suitable for sealing joints in portable water tanks.
- Suitable for joints up to 40mm wide
- Resistant to bacteriological attack
- Tough, weather resistant seal

### Standards Compliance

- **ASTM D36**
- **BS 6920 Part 1**
- **BS 8449:2005**
- **ASTM D412**

### Physical Properties

Form	Stiff putty
Colour	Black
Solids content	100%
Relative Density @25°C, kg/L	1.6- 1.9
Flash point, °C	320
Softening Point (R&B), °C ASTM D36	> 100
Suitability for Use in Contact with Drinking Water, BS 6920 : Part 1	Complied
Movement Accommodation Factors BS 8449:2005	Pass on 10% for butt joints
Elongation at Break, % ASTM D412	Min.500

### Drinking Water

**Estojoint** is not soluble in water and therefore taint free.

### Application Instructions

#### Roads and Traffic Surface

**Estojoint** compound are particularly recommended for sealing vertical joints in reinforced and un-reinforced concrete structures.

#### Water Retaining Structures

**Estojoint** compound are recommended for sealing of vertical and horizontal joints in many types of water retaining structures, including walls and floors of irrigation canals, reservoir and treatment plants, retaining walls structures and culverts.

**Estojoint** is applied by hand after it has been heated.

### Preparation

The joint surfaces shall be dry and free from old sealing compound, dust, scale grit, laitance and loose stones. New concrete surfaces shall be cured before compound is applied.

Absorbent surfaces, such as concrete and brickwork, require priming but should be warmed with a gas torch to ensure satisfactory adhesion.

In expansion joints, a firm backing, such as Estocell or Estocell RBCF, which allows free movement, must always support **Estojoint**. 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 surface:** Use **Estop Primer S1** on concrete, stone and brick paving. Allow to become touch dry before sealing, normally 1 to 4 hours.

**Non-porous surface:** Metal surfaces do not require priming but should be warmed to ensure satisfactory adhesion. Ferrous metal should be treated with an anti-corrosion primer.

### Heating

Tin of **Estojoint** is 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). **Estojoint** must not be subjected to direct flame.

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## Installation

Tins of **Estojoint** must be heated in boiling water or field ovens, not by direct flame.

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 the crevices, ensuring good contact with the sides and base of the joints. If necessary, caulk home with a piece of damp wood.

## Packing & Size

<b>Estojoint</b>	5 litre tin
<b>Estop Primer S1</b>	1 litre tin

## Coverage

<b>Estojoint</b>	13m per tin @ 20*20mm joint 8m per tin @ 25*25mm joint 4m per tin @ 50*25mm joint 2m per tin @ 50*50mm joint
<b>Estop Primer S1</b>	Approximately 1 litre per 4 tins of <b>Estojoint</b>

## Technical Support

Denka offers a technical support package to specifiers, end-users and contractors, as well as on-site technical assistance.

## Storage

**Estojoint** should be stored on pallets in dry conditions. Under these conditions the product will have a shelf life of 12 months.

If stored in extreme heat locations the shelf life may be reduced.

## Precaution

There are no known health hazards associated with **Estojoint** in normal use. However, prolong skin contact should be avoided.

**Estop Primer S1** is a highly flammable liquid. It should keep away from sources of ignition. No smoking. Harmful by inhalation and in contact with skin. Wear suitable protective clothing, gloves and eye/face protection.

## Additional Information

**Denka Construction Solutions Malaysia Sdn Bhd** offers a wide range of complementary products which includes waterstops, waterproofing products, grouts, anchors, specialized flooring products. In addition, a wide range of products formulated for repair and refurbishment of spalled concrete are available.



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