

Estoseal 109

One Part Polyurethane Sealant

Description

Estoseal 109 is a one part, gun applied, and moisture activated polyurethane sealant. After application a skin forms rapidly leaving the body of the sealant to cure more gradually, the rate being dependent upon temperature, humidity and dimensions of seal.

During the curing period, one part polyurethane sealants will accept limited movement normally associated with the applications described. Full cured sealant is capable of joint movement due to shrinkage and thermal changes do not exceed 25% Movement Accommodation Factor related to joint width.

Estoseal 109 has been tested in accordance to ASTM C661 – 98 on Shore 'A' Hardness; ASTM C793 – 05 on UV Resistance Condition; ASTM E1399 – 97 on Movement Accommodation Factor and complied with the specification in this data sheet.

Uses

For sealing vertical and horizontal movement joints in pre-cast concrete panels and metal curtain walls, window and door frame surrounds and other building components.

Advantages

Estoseal 109 is a one part polyurethane joint sealant which, on exposure to atmospheric moisture, cures to form a flexible rubber seal.

- One part gun application
- No mixing required
- Cures to a tough, flexible rubber
- Available in a range of colours
- No priming required on most substrates
- Excellent adhesion to most substrates.

Standards Compliance

- **ASTM C661 – 98**
- **ASTM C793 – 05**
- **ASTM E1399 – 97**

Physical Properties

Form	One part, paste compound	
Colour	Black, Grey, White Special colours available upon request	
Application Temperature	5 – 40°C	
Physical or Chemical Change	Curing by atmospheric moisture presence	
Movement Accommodation Factor MAF ASTM E1399-97	Total joint movement for cured sealant : 25% for butt joints	
Touch Dry at 25°C	6 hours	
Hardness Shore 'A' ASTM C661-98	30 ± 5	
UV Resistance ASTM C793-05	Passed	
Cure Time at 25°C	3 to 6 days	6 to 12 days
Application Depth	6 to 20 mm	20 to 30 mm
Thickness		

Application Instructions

Joint Preparation

Joint sealing slots in concrete should be accurately formed and must be dry, sound, clean and free from dust. Remove all dust and laitance by grit blasting or grinding. Avoid polishing the joint sides when grinding. The prepared sealing slot should be blown out with dry, oil-free compressed air.

Ensure that any expansion joint filler is tightly packed in the joint and at the required depth to provide the seal dimensions specified. Before sealing insert a cord or bond breaker caulked tightly into the base of the sealing groove to prevent sealant adhering to the base of the slot.

Priming

No priming is required for common substrates, such as concrete aluminium, brick, and granite.

Application

Estoseal 109 is supplied in a non-sag consistency that will gun easily with caulking gun. Fill the joint completely and tool immediately to ensure full contact with the interfaces of the joint.

Finishing

Estoseal 109 should be tooled to a smooth finish. Good sealant practice encourages the use of masking tape that should be removed immediately after tooling.

Limitation

Over painting of sealants is not recommended because of the ability of paint film to accept movement. However, if definitely required, trials should be carried out to determine compatibility.

Packing & Size

Estoseal 109 is supplied in cartons containing 20 × 600 ml foil sachets.

Guide to Estoseal 109 Quantities

Joint size, mm	Litre per metre
5 × 5	0.025
10 × 10	0.100
15 × 10	0.150
15 × 15	0.230
20 × 15	0.300
20 × 20	0.400

* No allowance has been made for wastage.

Technical Support

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

Storage

Storage life of 9 months is original foil packs when kept in dry conditions between 5°C and 27°C.

Precaution

May cause sensitisation by inhalation. Avoid contact with skin and eyes and inhalation of vapour.

Additional Information

Estop manufactures and 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.

Important Note

Estop products are guaranteed against defective materials and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies of which may be obtained on request. Whilst Estop endeavors to ensure that any advice, recommendation, specification or information in may give is accurate and correct, it shall not, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given by it.