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S.E.C (TYPE III) SELF-EXPANDING CORK FILLERBOARD

1/3

PRODUCT DESCRIPTION

S.E.C (Type III) Resin Bonded Cork Fillerboard is a cork-based material that expands within concrete joints to provide permanent protection. Cork is a natural product from the bark of the cork oak tree which is stripped, washed and treated. It is then granulated, mixed with resins and compressed into blocks. After the S.E.C (Type III) Resin Bonded Cork Fillerboard manufacturing process is completed, it is then cut to size and shape to suite your requirements.

S.E.C (Type III) Resin Bonded Cork Fillerboard, being a natural based product has the ability to withstand a variety of environmental and climatic conditions. As concrete expands and contracts during daily climate and temperature changes, S.E.C (Type III) Resin Bonded Cork Fillerboard automatically adapts to the conditions and prevents your concrete from bursting or cracking.

AREAS OF APPLICATION

- Footpaths
- Driveways
- Pedestrian malls
- Brick or block walls
- Heavy trafficable areas
- Ideal for wet areas
- Water tanks
- Reservoirs
- Dams
- Water treatment plants
- Sewage treatment plants
- Swimming pools
- Highways and bridges
- Airport runways

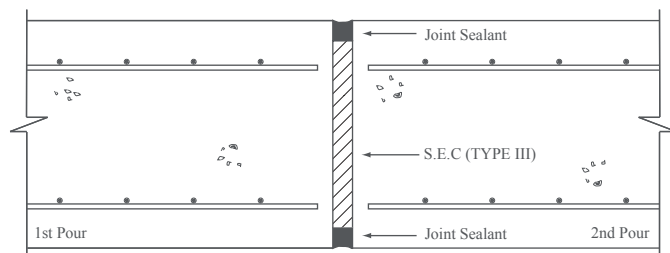
Note : The product's design and performance, its intended use, installation and final confirmation and approval for use, must be provided by the project's Design Engineer and Project Manager.

PHYSICAL PROPERTIES

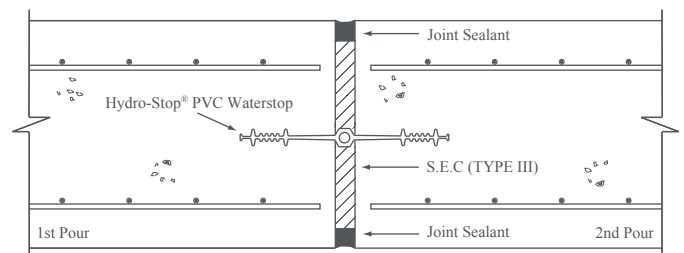
PROPERTY	SPECIFICATION	METHOD	UNIT	RESULT
Boiling water expansion (Water, 100°C, 1h)	> 140	ASTM D 545	%	142
Compression - Expansion joints	0.34 - 10.35	ASTM D 545	%	0.59
Density (Thickness Method)	250 - 370	ISO 7322	Kg/m ³	313
Recovery - Expansion joint	> 90	ASTM D 545	%	94

Note : The above physical properties are from Certificate of Analysis dated 27/04/2018. Material properties can vary between batches of ± 10%.

TYPICAL APPLICATIONS



EXPANSION JOINT IN SLAB OR IN WALL JOINT



EXPANSION JOINT IN SLAB OR IN WALL JOINT
OF WATER RETAINING / EXCLUDING STRUCTURE

TECHNICAL INFORMATION

▶ WEAR AND TEAR

S.E.C (Type III) Resin Bonded Cork Fillerboard is not like the soft brittle cork that comes in bottles. It is processed so that S.E.C (Type III) Resin Bonded Cork Fillerboard is a semi rigid material with a built-in flexibility to withstand heavy traffic. Vehicles moving across the joint will not tear it. S.E.C (Type III) Resin Bonded Cork Fillerboard is also flexible enough to bend within its own length.

▶ NO SYNTHETIC CAPPING/JOINT SEALANT

Synthetic capping is not necessarily required which saves time in pre-forming a gap for sealants. In areas where a capping is an extra safeguard, i/e. a large head of water or major joint movement, we can supply a tear off cap to suit your requirements.

▶ WATERING

Like all-natural products, S.E.C (Type III) Resin Bonded Cork Fillerboard likes to be watered. This should be carried out when the concrete has set. Your S.E.C (Type III) Resin Bonded Cork Fillerboard comes with a filament tape across the top edge for protection until the concrete has hardened. Then just strip the tape off and your clean S.E.C (Type III) Resin Bonded Cork Fillerboard will be exposed for watering. Maximum expansion is achieved by watering S.E.C (Type III) Resin Bonded Cork Fillerboard once a day for 3 days. By watering S.E.C (Type III) Resin Bonded Cork Fillerboard it assists in its expansion capabilities.

▶ THICKNESS

S.E.C (Type III) Resin Bonded Cork Fillerboard is available in standard thicknesses of 10, 12, 15, 20 and 25mm and custom thicknesses are also available upon request.

▶ TESTING AND COMPLIANCE

S.E.C (Type III) Resin Bonded Cork Fillerboard is put through many rigorous tests. It is:

- Boiled in hydrochloric acid for 1 hour
- Boiled in water for 1 hour
- Compressed to 50% at a load of 50psi to 1500psi and then recovers to 90% after 10 minutes.
It then has to meet a density of 354kg/m³

Note : Complies with American Society of Testing of Materials (ASTM 1752-D545 Type III)

▶ PERFORMANCE

- S.E.C (Type III) Resin Bonded Cork Fillerboard has the ability to expand up to 25% of its original size
- S.E.C (Type III) Resin Bonded Cork Fillerboard expands in boiling water in excess of 170% of its original volume
- It does not extrude from the joint
- It is water resistant and chemically inert
- Resists fungus and vermin
- Maintenance-free with a long life

STORAGE

S.E.C (Type III) Resin Bonded Cork Fillerboard should be stored in a dry place and left in its packaging until you want to use it. We package S.E.C (Type III) Resin Bonded Cork Fillerboard to your immediate requirements so it can be carried directly to the site. If you have any left over, it should be sealed again and stored in a dry place for further use.

WRITTEN SPECIFICATION

Where shown in the drawings, the expansion joint fillerboard shall be S.E.C (Type III) Resin Bonded Cork Fillerboard manufactured to ASTM D1752 Type III from high grade granulated cork and resin binders, with a minimum density of 250-370kg/m³ and have the ability to expand up to 25%. The application / installation of the product must be in accordance with the manufacturer's recommendations.

HEALTH AND SAFETY INFORMATION

For further information or advice on health and safety precautions, safe handling, storage and correct disposal of products, please refer to the most recent product Safety Data Sheet (SDS), which is available upon request.

The information and the recommendations relating to the application and end use of this product are given in good faith and are based on the information provided by the manufacturer of the product and/or the Company's current knowledge and experience in connection with the product when properly stored, handled and applied under normal conditions and no liability of final function at the job site is assumed. In practice, the differences in materials substrates and actual site conditions are such that no warranty in respect of merchantability of or fitness for particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written and/or oral recommendations, or from any other advice offered by the Company. The Company also has no express or implied knowledge of any particular purpose for which the product is required and any such information given will not be taken into account in the supply of this product. No responsibility or liability by the Company will be accepted for misuse, misreading or derivation from recommended guidelines in respect of this product and the user shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith. The information contained in our brochure may change at any time without notice. Any use of this product; S.E.C Self-Expanding (Type III) Cork Fillerboard in any application should be approved as suitable for use/application by the Design Engineer and Project Manager.

Effective Date: 13 March 2019

