

Aerofil® 1

Low density, compressible, closed cell polyethylene filler for structural expansion joints and building facades.

Advantages

- **Low compression** - accepts temperature cycles with minimal load transfer.
- **Closed cell** - prevents water absorption.
- **Recovery** - 95% after release of load.
- **Chemical resistant** - inert to most dilute acids and alkalis, resistant to oil and hydrocarbons.
- **Easily worked** - can be cut with sharp knife, economical in use.
- **Board form** - for structural expansion joints in concrete, brick and blockwork.
- **Cut Strip form** - in a range of sizes with rip-off edge to form neat sealant rebate.

Applications

Aerofil® 1 is a white, inert, preformed, closed cell, polyethylene joint filler suitable for structural movement joints in concrete, brick and blockwork.

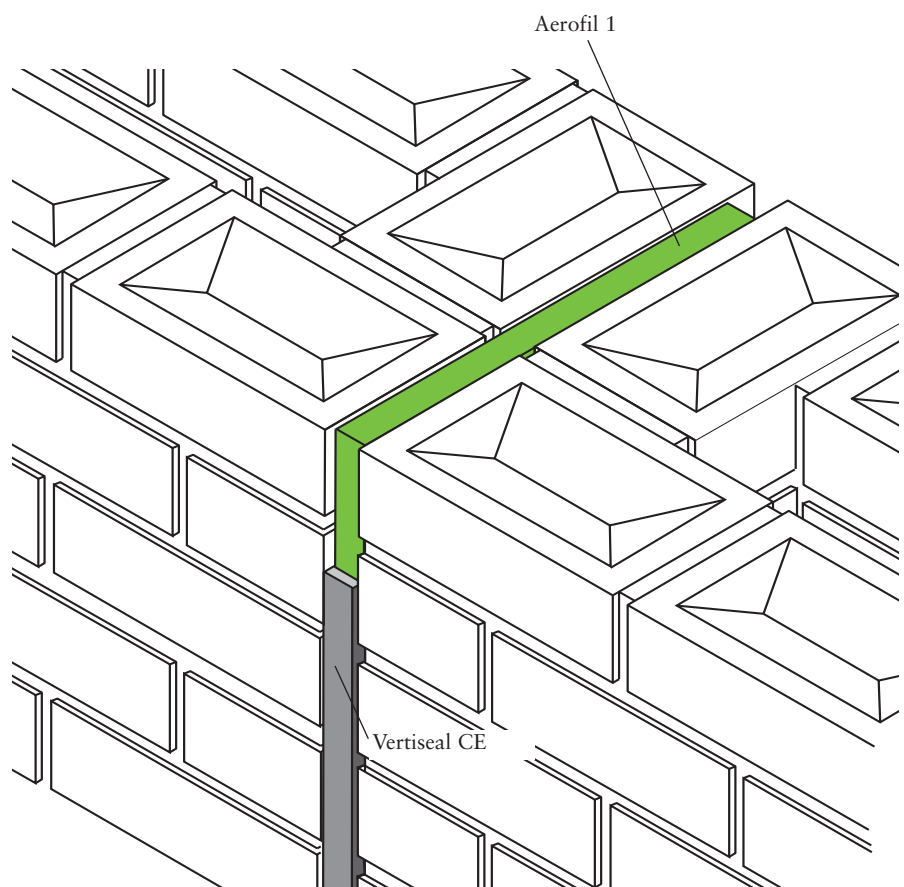
Aerofil 1's low compressive strength prevents the transfer of load across joint interfaces and makes it ideal for forming soft compression joints and expansion joints in brickwork facades as recommended by BS 5628: Part 3: 1985 Use of Masonry Clause 20.4.

Aerofil 1 is equally suitable as a low compression joint filler for bridge expansion joints as specified in Department of Transport, Scottish Development Dept., Welsh Office, Dept. of the Environment for Northern Ireland, Specification for Highway Works Series 1015 where it is essential to prevent transmission of horizontal forces to the abutment walls.

Aerofil 1's low density is also useful for forming isolation joints for machine bases or similar locations.

The closed cell construction also prevents moisture absorption.

Aerofil can be used on internal finishes as a gap filler or backing filler to walls, pipes, kitchen and sanitary ware before sealing with a surface sealant.



Expansion Joint in Masonry Wall

Supply

Aerofil® 1 Boards 0.8 m x 2.0 m (1.6 m²)
Thickness 5 mm, 10 mm, 15 mm, 20 mm, 25 mm

Cut sizes -

Thickness	Available widths
5 mm	50, 100 mm
10 mm	75, 100, 140, 200 mm
15 mm	100 min
20 mm	100, 200 mm
25 mm	150 mm

Ancillary Products

Pak Adhesive 5 litre can (Full coverage approx. 5 m² per litre - 2.5 m² bonded area)

Complementary Materials

Vertiseal® CE Range, Servijoint®One
 Paraseal® & 2 part polysulphide sealants

Installation

When used in board form for an expansion/movement joint, Aerofil 1 shall be spot bonded in position using Pak Adhesive at approximately 10-12 sq m per litre to bond to the substrate after cutting to size with a Stanley knife or similar. (Full coverage 5 sq m per litre per face i.e. 2.5 m² bonded area).

Specification Compliance

Department of Transport, Specification for Highway Works 1991 Clause 1015 (low compression for bridge expansion joints), Scottish Office Industry Department, Welsh Office, Department of the Environment for Northern Ireland, BS 5628: Part 3: 1985 Use of Masonry, Clause 20.4.

Health And Safety

There is no legal requirement for a Material Safety Data Sheet for Aerofil 1 or Slipstrip 2. For health and safety questions on these products please contact Grace Construction Products Ltd. For Pak Adhesive and Grace Sealants read the product label and Material Safety Data Sheets (MSDS's) before use. Users must comply with all risk and safety phrases. MSDS's can be obtained from Grace Construction Products or from our web site at www.graceconstruction.com.

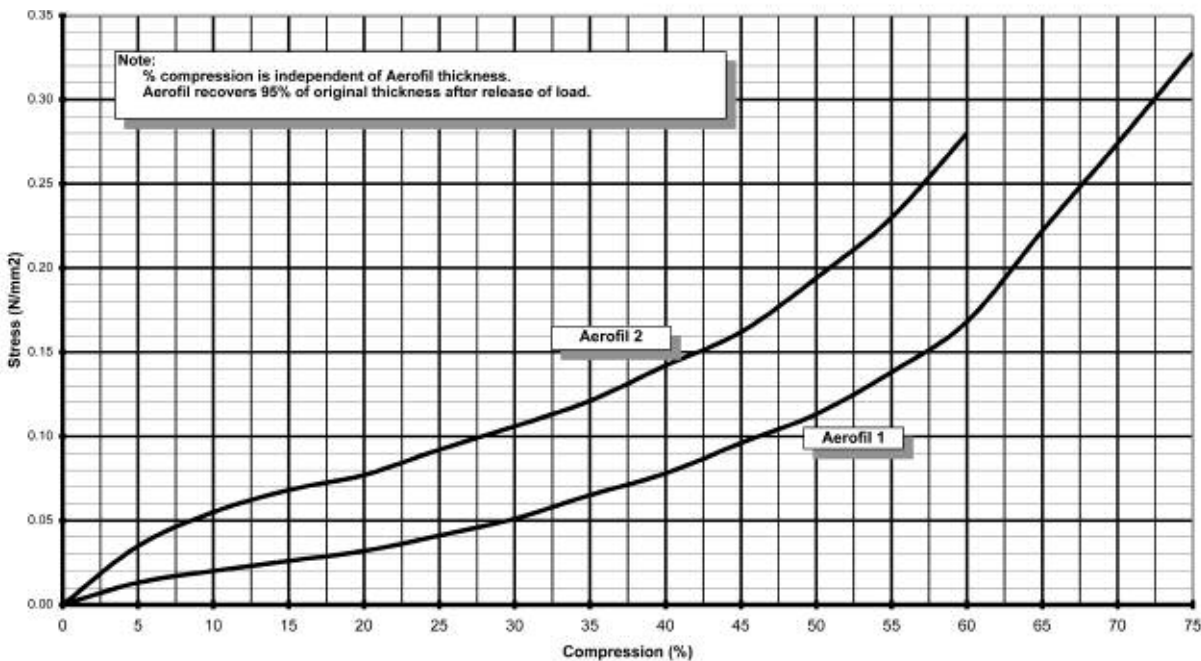
NBS Specification Clause

Refer to Clause E40 520.

Physical Properties

Property	Typical Results
Density	35 kg/m ³
Water absorption after 6 weeks immersion	3% by volume
Compressive strength @50% strain	115 kN/m ²
Chemical Resistance	Inert to most dilute acids and alkalis, resistant to oil and hydrocarbons
Operating Temperatures	-50°C to +100°C

Stress v Strain Curves - Aerofil 1 & 2



Details shown are typical illustrations only and not working drawings. For assistance with working drawings and additional technical advice please contact Grace Technical Services

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