

Aerofil® 2

High density, compressible closed cell, polyethylene filler for movement joints in civil/structural works and water retaining structures.

Advantages

- **High density** - provides support for surface sealants subject to hydrostatic pressure.
- **Non-extruding** - will not be displaced by compressive loads and movement.
- **Resilient** - will not distort under load from wet concrete.
- **Deformable** - accepts movement with low load transfer.
- **Recovery** - 95% after 50% compression.
- **Closed cell** - prevents water absorption.
- **Chemically resistant** - inert to most dilute acids and alkalis, resistant to oil and hydrocarbons, rot proof.

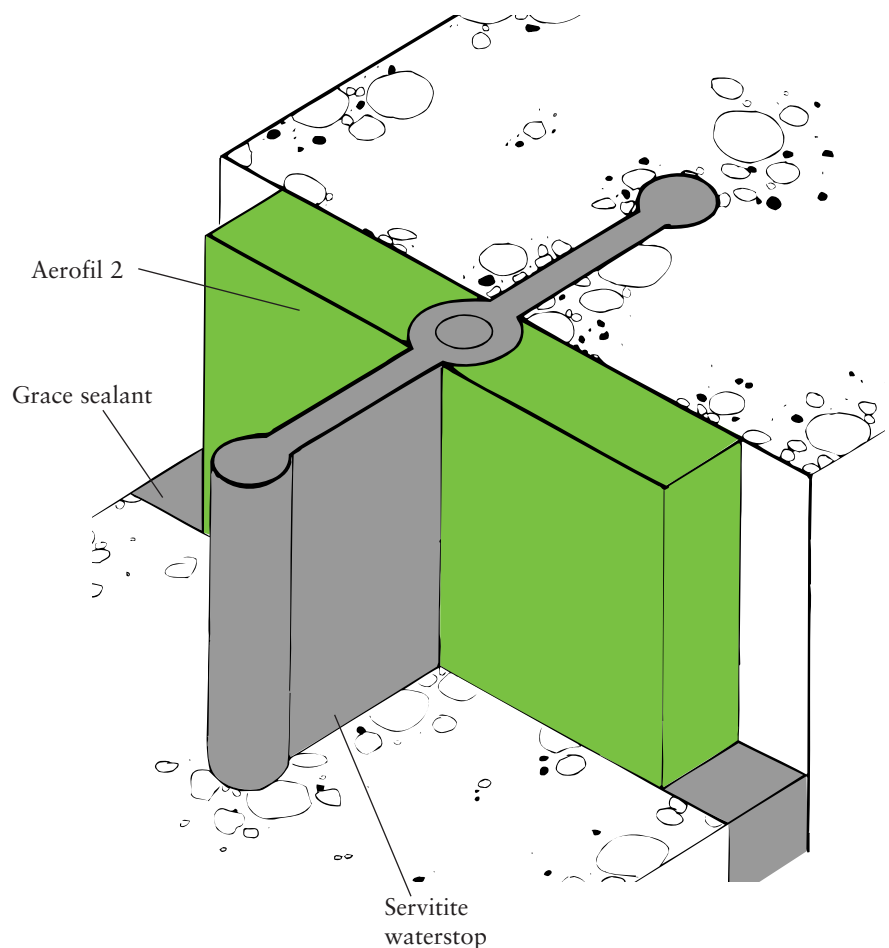
Applications

Aerofil® 2 is designed for water retaining structures such as reservoirs, sea walls subject to thermal movement and wave action, and heavily trafficked floors such as pedestrian areas, factory flooring and elevated structures.

Aerofil 2's high compressive strength and density combined with low load transfer characteristics make it ideal for creating joints in large in-situ concrete sections without distortion from wet concrete and vibrating techniques.

Its inherent compressive strength and stiffness provides excellent resistance to water pressure so that the subsequent surface sealant is supported to prevent adhesion failure at the shoulders of the joint.

The closed cell construction prevents moisture absorption.



Supply

Aerofil® 2 Boards	0.80 m x 2.00 m (1.6 m ²)
Thicknesses	10 mm, 15 mm, 20 mm, 25 mm, 50 mm
Ancillary Products	
Pak Adhesive	5 litre can (Full coverage approx. 5 m ² per litre - 2.5 m ² bonded area)
Complementary Materials	
Vertiseal® CE Range, Servijoint®One & Paraseal®	2 part polysulphide sealants

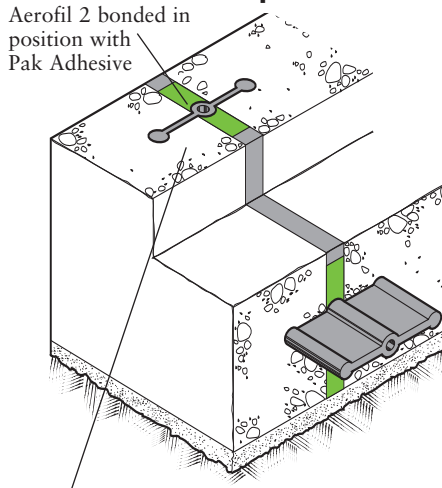
Installation

Spot bond 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, 2.5m² 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.

Typical Slab/Wall Expansion Joint



For advice on correct waterstop and sealant refer to Technical Services Department

Technical Data

Property	Typical Results
Density	70 kg/m ³
Water absorption after 24 days	< 2%
Compressive strength @ 50% strain	195 kN/m ²
Chemical Resistance	Inert to most dilute acids and alkalis, resistant to oil and hydrocarbons
Operating Temperatures	-50°C to +100°C

Health And Safety

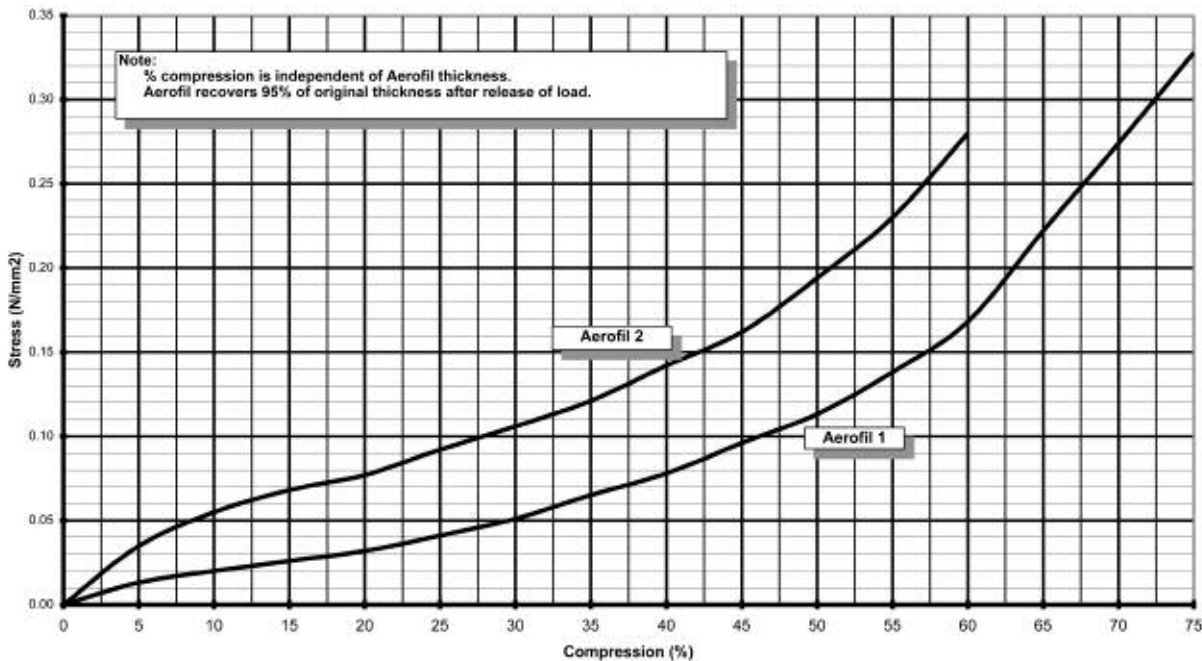
There is no legal requirement for a Material Safety Data Sheet for Aerofil 2 or Servitite waterstops. For health and safety questions on these products please contact Grace Construction Products Limited.

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.

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

 Visit our web site at www.graceconstruction.com

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