

CONSTRUCTION PRODUCTS

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**Domestic
Commercial
Industrial**



Made in Australia

THE COMPANY

Since its establishment in 1987, Thermotec Australia Pty Ltd has developed its reputation as a leading Australian manufacturer of low density polyethylene foam products for the building and insulation industries.

Thermotec's product range includes expansion joint filler: pipe, sheet and duct insulation; foam sealant backing rod; waterproof membrane protection foam and concrete curing mats.

JOINTFILL® - THE PRODUCT

Jointfill is a closed cell polyethylene foam expansion joint filler specifically designed for use in brick and blockwork, isolation joints, hinge joints, deck slabs, retaining walls, reservoirs, subways, bridges, basement structures, sewage treatment works, water channels and culverts.

"The compression resistance perpendicular to the faces, the resistance to the extrusion during compression, and the ability to recover after release of the load are indicative of a joint filler's ability to continuously fill a concrete expansion joint and therefore prevent damage that might otherwise occur during thermal expansion".

- (USA ASTM D545-84).

As can be seen from the results detailed in the **Jointfill Properties Table**, **Jointfill** performs particularly well with regard to the above criteria. **Jointfill is available in 2 grades**. The correct grade of **Jointfill** should be used for a particular application.

- **Jointfill T65** has a typical density of approx 55 kg/m³ and is most suitable for use as a back up for sealants placed in joints on concrete floors subject to foot traffic and light to medium wheel roads; brick and blockwork; hinge joints; isolation joints and deck slabs.
- **Jointfill T140** to be used in 'critical' applications such as water retaining structures and joints subject to heavy loads.

Note: Where required, Jointfill can be supplied in densities up to 250 kg/m³.

APPLICATIONS

- Buildings
- Stadiums
- Flooring
- Concourses
- Bridges
- Pool Surrounds
- Concrete Roads
- Reservoirs
- Pavements
- Culverts

ADVANTAGES OF JOINTFILL

- Minimal moisture/water absorption
- Easy to transport and handle
- Excellent perpendicular compression resistance
- Readily cut on site
- Contains no CFC's or HCFC's
- Non-tainting
- Good rebound recovery
- Excellent chemical resistance
- Minimal extruding
- Recyclable
- Available in a range of thickness and widths
- Readily compressible
- Compatible with full sealant range
- Long product life

THERMOTEC JOINTFILL SPECIFICATION

The Joint Filler shall be recyclable, non cross linked, closed cell, low density, polyethylene foam (as manufactured by Thermotec Australia) with a nominal density of not less than 50 or 120 kg/m³ (delete non applicable density) **Jointfill** greater than 10mm, shall have a minimum of one flame lamination for maximisation of load support in the perpendicular plane. Recovery after 50% compression shall be at least 95% within 10 minutes while extrusion after 50% compression must be less than 0.5% (T65) or 1% (T140) (delete non applicable compression). Minimum compression resistance shall be 300 Kpa(T65) or 500 Kpa(T140) (delete non applicable resistance level). The joint filler shall show no deterioration with a load bearing of 10 Kn and must not support the growth of micro organisms nor release cytotoxic or mutagenic compounds or metals into water per AS4020 (Int) - 1994.

JOINTFILL PROPERTIES

| GRADE | T65 | T140 | | | | | | |
|---|--|---|-----------------|---|--------------|---|-----------------|---|
| Form | Closed cell flame laminated low density polyethylene foam | Semi-rigid closed cell, flame laminated polyethylene foam | | | | | | |
| Suitable for | Medium and low load bearing | Heavy Loads | | | | | | |
| Typical Application | Support sealants, Deck slabs. Brick and blockwork. Hinge joints. Isolation joints. | Water retaining structures | | | | | | |
| Nominal Density | 55 kg/m ³ | 120 kg/m ³ | | | | | | |
| Recovery after 50% compression per ASTM-D545-84* | 95% after 10 mins | 95% after 10 mins | | | | | | |
| Extrusion after 50% compression with 3 edges restrained per ASTM-D545-84* | Approx. 1mm (less than 1%) | Approx. 0.5mm (less than 0.5%) | | | | | | |
| Compression Resistance per ASTM-D545-84* | 335 Kpa | 503 Kpa | | | | | | |
| Load Bearing* | No deterioration at 10 Kn | | | | | | | |
| Effect on water quality AS4020(Int) - 1994* | Does not support the growth of micro organisms nor release per cytotoxic or mutagenic compounds or metals into water. Safe for contact with drinking water | | | | | | | |
| Colour | Black | | | | | | | |
| Weathering | Very good weather resistance. When exposed to direct sunlight (no joint sealant covering) must be coated with an exterior acrylic PVA paint to protect against UV degradation. | | | | | | | |
| Fire Performance per AS1530.3* | Tests to AS 1530.3 resulted in the following fire performance: <table style="margin-left: auto; margin-right: auto; border: none;"> <tr> <td style="padding-right: 20px;">Spread of Flame</td> <td style="text-align: right;">0</td> </tr> <tr> <td>Heat Evolved</td> <td style="text-align: right;">1</td> </tr> <tr> <td>Smoke Developed</td> <td style="text-align: right;">4</td> </tr> </table> | | Spread of Flame | 0 | Heat Evolved | 1 | Smoke Developed | 4 |
| Spread of Flame | 0 | | | | | | | |
| Heat Evolved | 1 | | | | | | | |
| Smoke Developed | 4 | | | | | | | |
| Toxicity | In the event of complete combustion the smoke given off is non-toxic | | | | | | | |
| Water Absorption* | 1.56% by volume after 4 days complete submersion <2% by volume after 28 days complete submersion | | | | | | | |
| Operating Temperature Range | -40°C to +90°C | | | | | | | |
| Chemical Resistance | Resists most common commercially used chemicals and acids. Resistant to oil and diesel. | | | | | | | |

* Tested by independent NATA accredited laboratory

DIMENSIONS

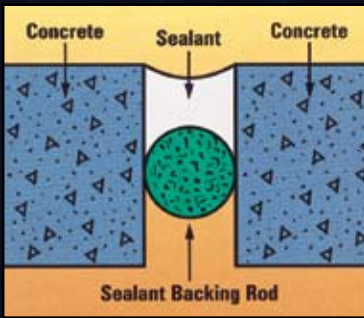
Jointfill is available in a wide range of widths, thicknesses and lengths to suit contractors specific requirements.

ROLLS T65

| | |
|-----------|--|
| Length | 25m Roll |
| Thickness | 10mm - alternative thicknesses available |
| Width | from 50mm to 300mm - alternative widths available up to 1m |

SHEETS T140

| | |
|-----------|--|
| Length | 2.4m - alternative lengths available |
| Thickness | 10mm - alternative thicknesses available |
| Width | from 50mm to 250mm - also available in required width up to 1m |



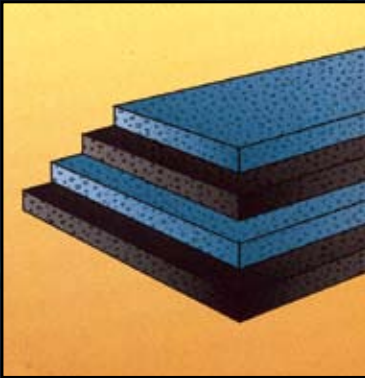
SEALANT BACKING ROD

- Compatible with all leading sealants
- Available in full range of diameters from 6mm to 50mm
- Excellent rebound recovery
- Round profile enables sealant to form correct profile for optimum movement
- Saves money by minimising amount of sealant required
- Suitable for horizontal and vertical joints, sealing of internal wall joints, draft proofing and sealing windows



WATERPROOF MEMBRANE PROTECTION FOAM

- Protects membrane against damage in applications such as basement walls, planters, podium slabs, decking etc
- Resistant to damage from aggregate during filling, but at the same time easy to cut and trim to required size
- Light and easy to transport and handle on site
- Flexible, tough, moisture resistant and impact absorbing
- Clean, easy and safe to work with - simple to fix with adhesive



FOAM SHEETING

- Available in a full range of thicknesses (1mm to 50mm), widths and densities
- Thermal insulation of underside of concrete slabs (E-Therm)
- External duct insulation (Ductwrap)
- Insulation of tanks, spas, machinery etc
- Product protection against impact or abrasion damage (Foamwrap and Foampac)
- Structural borne Noise Reduction between floors in multi-level buildings
- Concrete curing mats

For additional technical information regarding any Thermotec material and for details of your nearest distributor/authorised contractor please contact:



Thermotec Australia Pty Ltd

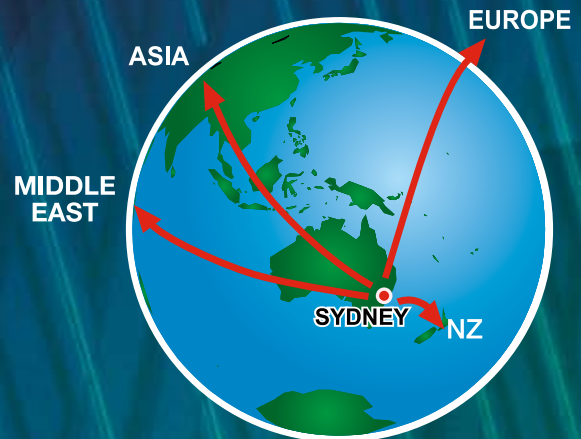
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