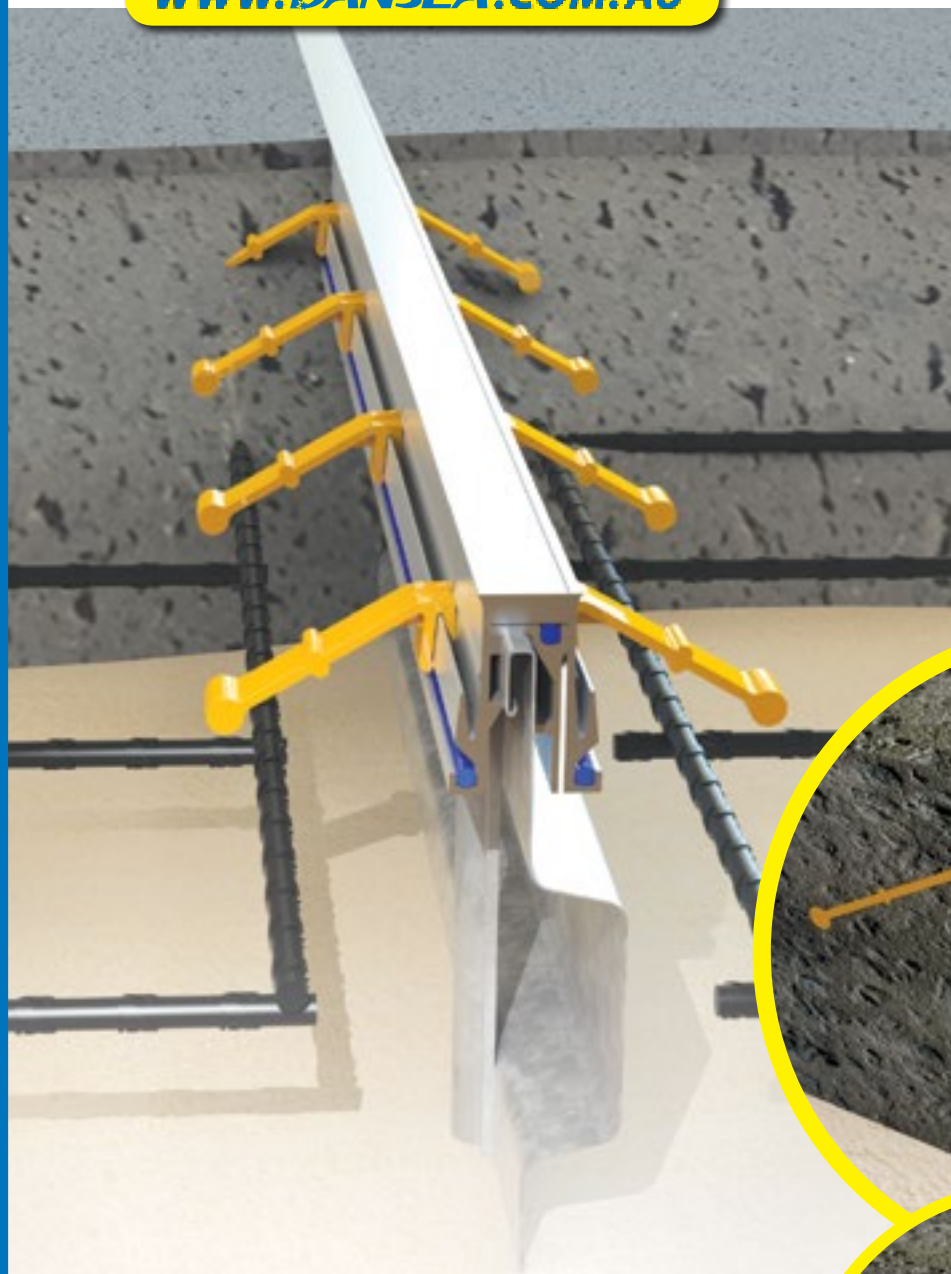




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- ▶ *Allows for joint movement in all directions*
- ▶ *Expansion & contraction up to 5x greater than elastomeric sealants*
- ▶ *Eliminates the need for ongoing costly maintenance of joints*
- ▶ *Reduces potential trip hazards*
- ▶ *Reduces potential liability*
- ▶ *100% waterproof joint*



FinnJoint™ is the ultimate
MAINTENANCE FREE
concrete joint solution.

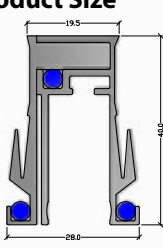
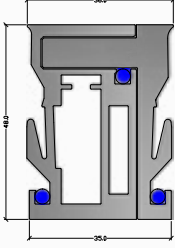
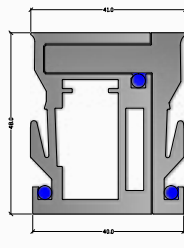
For more details on FinnJoint™ visit www.finnjoint.com



Description

FinnJoint™ consists of an anodised aluminium extrusion, a hydrophilic rubber gate seal, and nylon fixing tabs. It allows concrete slabs to shrink during curing without cracking, and services expansion and contraction due to temperature changes.

Properties

Construction	2 Part Aluminium Extrusion
Material	6061-T6 Aluminium
Finish	Anodised to AS1231
Seal Material	Hydrophilic Rubber
Service Life Of Seal	100 years
Vehicle Load Capacity	Single and Tandem Axle Rated
Standard Length	2925 mm
Product Size	
	
FJ9	FJ15
	FJ20

Hydrophilic Rubber Seal

- Water tight joint
- Guaranteed 100 year cycle life
- Rubber expands to create seal
- Chemically stable
- High resistant to fuel and chemicals



► Hydrophilic Rubber Seal before/after coming in contact with moisture.

The **Hydrophilic Rubber** is a water-swelling rubber that expands with moisture creating a perfect seal. It has a very high chemical resistance against acids, alkalis, fuels, mineral oils and organic solvents etc. (something sealants do not have!). The rubber is coated with a material that will break down in concrete after 24-48 hours so as not to expand whilst the concrete is wet.

With a proven track record of over 30 years in Australia as a waterstop material, It is guaranteed to go through wet to dry cycles for 100 years.

FinnJoint™ Features

- Allows for joint movement in all directions
- Expansion & contraction up to 5 x greater than elastomeric sealants
- Provides joint edge protection
- Allows up to 20 mm movement
- Suitable for foot & vehicle traffic
- Hydrophilic rubber seal (100% waterproof seal)
- High resistance to fuel & chemicals
- Complies with AS/1170.1:2002

FinnJoint™ Benefits

Engineer:

- Hydrophilic rubber ensures that the joint is waterproof
- Increases the design life of the joint
- Eliminates concrete spalling
- Protects reinforcing from corroding

Architect:

- Replaces the need for sealants in joints
- High grade aluminium finish gives increased aesthetic appeal of joint
- Does not collect dust and debris like sealant joints making for an unsightly joint
- Can be used with all types of finishes including polished concrete, exposed aggregate concrete, tiles, carpet and many more

Asset Owner:

- Maintenance free
- Reduces liability by eliminating potential trip hazards
- No need for shutting down of asset to undertake repairs
- Joint does not break down like elastomeric sealant joints

Contractor:

- Suitable for various slab thicknesses
- Can be used as a screed rail
- Allows for continuous pouring of slabs
- Can be retrofitted
- Multiple installation options
- Minimises call backs for repair of elastomeric sealant joints

Applications

FinnJoint™ is a revolutionary product with many advantages over existing concrete expansion joints. It is the only product that can provide a seal from the time of pouring. All other products must be fitted after pouring. Primarily FinnJoint™ is designed to remove the need to use elastomeric sealants in any concrete joint. Not only does the sealant fail aesthetically, it will always require costly replacement over the lifetime of the concrete joint.



“ High grade aluminium finish gives increased aesthetic appeal of concrete joint.

Three Basic Types of Sealant Failure illustrated below.

Sealant failures occur due to a number of reasons, these include: wrong sealant selection, incompatible materials, environmental conditions, application error and using product past its shelf life.



“**LOSS OF ADHESION**” is failure of the sealant to adhere along the bond line of the surface to which it is attached, causing it to break away. Possible causes are joint movement exceeding the sealant capability, improper surface preparation, or improper bead configuration.

“**SUBSTRATE FAILURE**” is not a failure of the sealant itself, but of the surface or substrate to which it is supposed to adhere. Substrate failure results from improper surface preparation. The weak interface depicted here should have been saw cut back to prevent loose pieces of the surface material from breaking away from the joint interface.

“**COHESIVE FAILURE**” occurs when the sealant fails to hold together. Cohesive failure can take the form of splits and tears in both transverse and longitudinal directions. Usual causes include improper sealant selection, poor mixing of multi-component sealants, possible air entrapment in the sealant from mixing, or improper bead configuration.

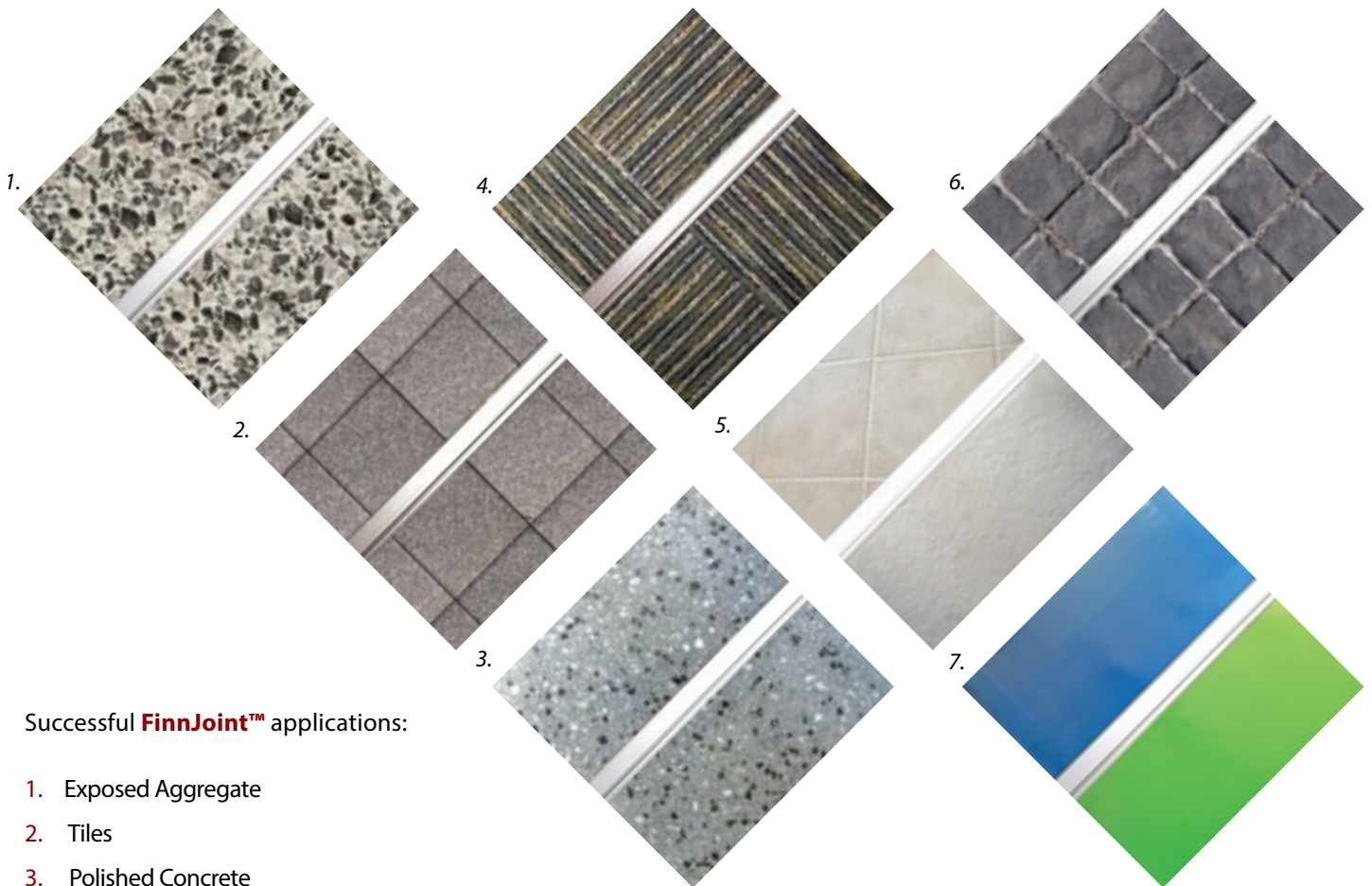
(AVD3791-5/03 - Why Sealants Fail, available from www.crlaurence.com)

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Applications

FinnJoint™ is suitable for use in many different environments and can be used with multiple finishes. Some typical examples are listed below:

- Driveways
- Swimming Pools
- Boardwalks
- Petrol Stations
- Tennis Courts
- Industrial warehouses
- Shopping Centres
- Car Parks
- Airports
- Malls
- Sporting Facilities



Successful **FinnJoint™** applications:

1. Exposed Aggregate
2. Tiles
3. Polished Concrete
4. Carpet
5. Carpet & Tile Transition
6. Cobblestone
7. Coloured Epoxy

Installation

The unique design of FinnJoint™ allows for various installation methods for the contractor, which makes the system very user friendly. Full installation instructions are available on the website www.finnjoint.com and listed below are some of the more common installation methods:

Timber

- FinnJoint™ can be easily attached to timber edge board using the FinnJoint™ plastic nailing clips
- Suits various slab thickness
- Suits various dowel systems
- Quick and easy to install

Key Joint

- FinnJoint™ can be easily attached to different metal Key Joint products by using the applicable plastic clips that attach the FinnJoint™ to the top of the metal section
- Suits various slab thickness
- Quick and easy to install
- Allows for continuous pouring of slabs

K-FORM

- FinnJoint™ can be easily attached to K Form by using the applicable plastic clips that attach the FinnJoint™ to the top of the plastic section
- Suits various slab thickness
- Quick and easy to install
- Allows for continuous pouring of slabs

Separation Plate

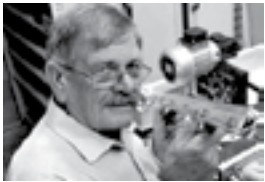
- FinnJoint™ can be supplied with an aluminium separation plate
- Suits various slab thickness
- Suits various dowel systems
- Quick and easy to install
- Allows for continuous pouring of slabs

Retro Fit

- FinnJoint™ can also be used to repair damaged concrete joints
- FinnJoint™ section is retro fitted using an appropriate epoxy and held into place with plastic clips until curing has occurred
- Epoxy can then be ground flat to match existing concrete
- Quick and easy to install
- Eliminates the need for further ongoing repairs of damaged joint



Meet the INVENTOR



Bruce Findlay has been working in the Australian concrete industry for 40 years. In this time he has had first hand experience with traditional expansion joint technologies, and a unique insight into their failings. His concept for FinnJoint™ was first proposed nearly 25 years ago, but development did not start until 2006. Since then he has refined and perfected his concept to the point it is now. Market ready, and set to revolutionise the concrete jointing industry.

Product Testing



Extensive product testing has been carried out on all aspects of the FinnJoint™ system. **Visit link below** and watch Finnjoint™ survive more than 1,000,000 pallet wheel impacts in this recently conducted test in the USA.

FinnJoint™ is the only Construction Joint in the world that can accept the initial shrinkage and remains a waterproof joint that is cast in-situ.

www.finnjoint.com/testing-verification

FinnJoint™ Projects

Below are some recent FinnJoint™ projects, more information can be found on www.finnjoint.com

- ▶ **St Joseph's School, Nambour** - Evans Harch
- ▶ **Factory, Caloundra** - Makara Constructions
- ▶ **Bike Path, Ashgrove** - Brisbane City Council
- ▶ **McCarthy College, Tamworth** - Ware Building



FINNJOINT™

visit www.finnjoint.com

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Construction Products

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