

FAQ's – Anchoring Adhesives

What do Anchoring Adhesives do?

A pressure-free securing of threaded rods, studs, reinforcement bars, threaded collars, profiles etc into concrete, concrete blockwork, stone and masonry substrates.

What kind of Adhesive is Anchoring Adhesive?

Chemical cure, the product has a special nozzle that mixes the product when it is gunned out.

The chemicals then react with one another to cure to create a strong lasting bond when mixed correctly.

What is better SoudaFix or BoltFix?

- SoudaFix is for heavy to medium applications. It has a C1 Seismic Rating, works on cracked and uncracked concrete and complies to requirements in the NZ Building Code.
- BoltFix is for medium to lightweight applications and only in uncracked concrete into concrete, concrete blockwork, stone and masonry substrates. It can be used on solid & hollow materials and is suitable for exterior applications.

Can I use Anchoring Adhesives to repair cracked concrete?

If you are meaning, “can I use it to repair cracked concrete back to its uncracked/original strength”, then unfortunately No.

The anchor adhesive can be used to repair and fill cracked concrete, however while it will provide a strong hardwearing repair, this will not result in the cracked concrete having the same strength as it had before it was cracked.

Why do I need to use Seismic Rated Anchoring Adhesives mean?

The requirement is set out by the NZBC, Engineers and Building Authorities when they consider the anchor to be critical to function and if there is a possibility of endangerment to human life. Remember, we are the ‘Shaky Isles’, for a reason.

NZS 3101 Concrete Standard (amendment 3) included requirements for all post-installed concrete anchors to be designed to European Design Standards (EOTA TR045) and European Test Standards (ETAG 001). The standards written in ETAG 001 set out the basis for using anchors in cracked and uncracked concrete. The scope of ETAG 001 states that C1 and C2 anchors should be specified “when failure of anchorages made with these products would compromise the stability of the works, cause risk to human life and/or lead to considerable economic consequences.”

What is the difference between C1 and C2 Seismic Rating?

The difference between C1 and C2 is the size of the crack that the anchor will work in. C2 works in a bigger crack than C1.

- *C1 anchors are tested for both shear and tension forces,*
- *C2 anchors are tested for shear & tension forces & deformation (seismic) forces.*
C2 is always required where there is the possibility for endangerment to human life.
- *Due to the seismicity of the regions across NZ – Auckland & Northland are the only regions where C1 can be used.*
- *In other parts of the country C2 is always required where there is the possibility for endangerment to human life.*

Even in other regions C1 will be often preferred over a standard BoltFix as it works in cracked concrete which a standard BoltFix type product will not.
