

INSTALLATION PROCEDURE

for Concave-based fixings

How Spida Fixings work

Spida Fixing's patented features give them a superior bond, inherent strength and high stress dissipation allowing them to be used to build, maintain, repair and overhaul products without compromising structural integrity and without significantly increasing costs, weight or installation time.

With Spida Fixings, not only is it possible to hold accessory structures (e.g. wiring) in place; it is also possible to use an epoxy bonded Spida Fixing to secure even the most structurally important components that must withstand high forces (e.g. stadium seating).

Australian Parts & Equipment offer concave based bonded fixings as are they are suitable for most applications particularly when bonding with epoxy adhesives. Research has shown that using an exothermic adhesive (i.e. adhesives that cure by creating their own heat when mixed) creates an exceptionally strong bond. The concave base of the fixings also ensures the optimal depth of adhesive is used, improving the bond.

The concave base shape self-levels the fixing by forcing it to land level to the substrate even when loaded with a viscous adhesive. Spida fixings resist torsional forces with the patented castellations or feet on the base.

INSTALLATION INSTRUCTIONS

The bonded load data shown on the APE website were achieved in ideal conditions and are to be used as a guide only and not as a load rating. The responsibility for the assessment of the fixing as fit for purpose falls with the user. It would not be unreasonable for a user to derate a fixing by dividing it by a factor of 10, i.e. a fixing that achieved a bonded load rating of 800kgs maybe derated to 80 kgs or less depending on the circumstance. If in doubt, consider using multiple fixings to secure the object. Another option is to adhere a sacrificial fixing for strength testing. This fixing can be assessed for its suitability once the adhesive bond has cured.

- Obtain and thoroughly read copy of the relevant Safety Data Sheet and Technical Data Sheet for the adhesive being used.
- Use the appropriate personal protective equipment (PPE) including gloves, safety glasses, respirator and other PPE as dictated by the Safety Data Sheet.
- Inspect the area where the fixing is to be bonded, ensuring the area is flat.
- Consider the structural integrity of the substrate, paint, gelcoats and other surface coatings and derate as appropriate:
 - 1. Does the substrate being bonded have structural integrity? e.g. a piece of 8mm mild steel will have a greater substrate strength than a concrete wall. Derate appropriately.
 - 2. Is the area painted? Either derate the holding capacity or remove the paint.
 - 3. Is the substrate stable? Derate if necessary.
 - 4. We do not recommend adhering bonded fasteners onto thin, highly flexible plastics.
 - 5. If bonding to plastic, determine the type of plastic and select the appropriate adhesive.
- Select an appropriate adhesive for the job at hand, we suggest a two-part adhesive, for example Araldite or another quality adhesive considering the chemical environment, working temperature range etc.
- Surface preparation: Abrade the surface by mechanical means if possible; i.e. grit blasting or abrade surface in a crosshatch pattern.

- Place solvent on a lint free cloth and wipe both the abraded area and the fixing to de-grease the surfaces. On highly abraded surfaces you may need to submerge both surfaces in solvent or dab with solvent using a lint free cloth to ensure no fibres are included in the bond.
- Once cleaned do not touch these areas and ensure they remain free from grease, oil and contaminants.
- Use either IPA or acetone solvent and allow the solvent to evaporate before applying adhesive.
- Apply adhesive to the area (see Adhesive Chart for quantity).
- Massage the adhesive into the area with a wooden spatula or gloved finger.
- Apply adhesive to the fixing and massage onto the fixing.
- Apply additional adhesive to the fixing.
- Firmly push the fixing down on to chosen location, ensuring all 8 feet touch the surface.
- Tape the fixing in place.
- Leave to cure. (Check the technical data sheet curing times)

Disclaimer:

The data provided in this document is advisory only. The User is responsible for seeking advice about adhesives from the relevant supplier or manufacturer. The responsibility for assessment of the parts as fit-for purpose falls with the User. Self-certification that the parts meet the user's performance requirements is advised. Adhesion Technologies, its subsidiaries and distributors cannot be held responsible for the application of any fixing product supplied, irrespective of the data provided in this document.