



## technical data sheet

# TITAN BOND PLUS

### PRODUCT

A two component high performance, solvent-free epoxy adhesive. Provides a very strong bond for wet or dry surfaces.

### DESCRIPTION

Titan Bond Plus can be applied wet or dry, even underwater. It's an innovative two part epoxy that dries to an off-white colour which has unique properties that displaces water then bonds to material. It works in fresh, chlorinated or salt water as well as in dry. It is a versatile adhesive that remains flexible when dry and adheres to a variety of materials. It withstands mechanical shocks and has a thermal operating range of -20°C to 80°C. Sets in 24 hours and fully cured in 7 days.

High bond strength exceeds PVC wall strength and can be used as an adhesive or for gap filling applications. Solvent free therefore doesn't emit any VOC'S.

### RECOMMENDED USES

Titan Bond Plus bonds to ABS, PVC, Acrylic, Steel, Galvanised metal, aluminium, ceramics, concrete, copper, glass, fibreglass, wood and plastic composites.

- **Outside Repairs** gutters downspouts (PVC or metal), roof leaks, skylights, glass, outdoor furniture, tarps
- **Pools** PVC or polyurethane vinyl liners, tiles, grates, skimmers or concrete.
- **Inside Repairs** shower tiles, pans, and doors; general repairs for sinks, tubs or spas and fish tanks.
- **Marine repairs** for bilge, hull and superstructure attachments in fresh or salt water. Bonds Plexiglas, stainless, wood, canvas, glass and aluminium.
- **Camping** Fixes canvas tents and tarps.
- **Plumbing & Irrigation** Fix pump housings, valves, fittings and sprinklers and pipes with or without fittings; ie: PVC butt joints, PVC/PVC, ABS/PVC, and Galv/PVC. Use as an adhesive/gap filler for small pipes into large fittings.
- **Landscape** Attach fixtures, statuary, ponds, pottery, lighting and planters.

### LIMITATIONS

Do not use on Polypropylene, Polyethylene or surfaces which contain Teflon or Silicone.

### FEATURES & BENEFITS

- Can be applied and cures underwater (fresh, salt or chlorinated)
- High bond strength as an adhesive or as a gap filler.
- Adhesive strength exceeds PVC wall strength.
- Bond remains flexible so resists mechanical shocks.
- Resists bending, shock and vibration failures
- Doesn't go brittle
- Ideal for shrinking and expanding joints – stretches 30% without separating.
- High chemical stability in acids and caustics.

- Solvent free – safe to use in enclosed areas.
- Doesn't harm marine life – ideal for aquaculture or aquarium use.

### TYPICAL TECHNICAL DATA

<b>Physical form</b>	Viscous liquid
<b>Colour</b>	Resin off-white; Hardener Translucent Straw
<b>Chemical type</b>	Epoxy
<b>Odour</b>	Amine
<b>Specific Gravity</b>	Resin 1.25; Hardener 0.99
<b>Mixture Working Life</b>	15-30 minutes
<b>Curing time</b>	Initial 3-4 hours; Complete 24 hours
<b>Service Temperature</b>	-20°C to 80°C

Typical Properties of cured product	
<b>Flexural Modulus</b>	8,000 psi
<b>Tensile Strength</b>	1,150 psi
<b>Tensile Elongation</b>	100%

### PACKAGING

Bostik Titan Bond plus is available in 24ml syringe on a blister card and packed into a cut-case carton containing 10 units.

### APPLICATION INSTRUCTIONS

#### 1-Preparation

- Ensure surfaces to be bonded are clean and free from dirt, oil and loose material.
- Roughen all bonding surfaces with sand-paper and wipe clean.
- Cut tips of nozzle ends at groove.
- Mix equal part of resin and hardener to uniform colour using an icy-pole stick on a clean disposable surface.

#### 2-Application

- Use icy-pole stick to apply adhesive onto bonding surfaces, press together leaving glue between joints.
- When applying to substrates underwater, ensure that adhesive is pushed onto the bond area firmly for 10 seconds allowing the adhesive to disperse the water and adhere to the bonding surface.
- Working time is 15-30 minutes and handling time 3-4 hours.
- Operating range from -20°C to 80°C
- Clean up with alcohol or acetone.

### HEALTH AND SAFETY

- Harmful by inhalation and if swallowed. Irritating to eyes and skin.
- Wear eye protection and protective gloves when mixing or using.

### FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre (ph 131126-Australia, 03 4747000 New Zealand). If swallowed, do NOT induce vomiting, give a

glass of water. If skin contact occurs, remove contaminated clothing and wash skin thoroughly. If in eyes, rinse immediately with plenty of water and see a doctor.

**STORAGE**

Shelf life is 2 years when stored in a cool, dry area, below 30°C out of direct sunlight.

**FIRE**

Product is non-flammable

**Titan Bond Plus**

Item No:	Stock Size	Units per Carton
267872	24ml syringe blister card	10

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**FOR FURTHER INFORMATION**



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