

Casttec



Innovative bonding solution for precast concrete forming

Casttec is a revolutionary fixing method for the precast concrete industry. Designed for formwork construction and accessory attachment prior to concrete pouring, the Casttec system provides a more cost-effective and simple solution when compared to traditional methods like welding, bolting, tapes and magnets. Delivering exceptional strength, reliability and versatility across the wide range of precast applications, the Casttec system is the one-stop solution to your precast fixing requirements.

Why Choose Casttec?

- **Cost-Effective** – A fraction of the cost of magnets or tapes, Casttec adhesives are designed to be used sparingly while maintaining unparalleled bond strength.
- **Simplified Process** – With no need for surface priming, the adhesive can be applied immediately when needed, with a simple removal process at the end of the production cycle.
- **Versatility** – Casttec adhesives bond a wide variety of materials including metal, plastic, wood, and foam, reducing the need for multiple attachment methods.
- **Speed** – Each formulation is designed to provide an instant hold upon compression, with a strong bond formed within 10 to 15 minutes.
- **Non-Destructive** – After 24 to 48 hours, Casttec adhesives crystallise and become brittle, allowing for easy removal from any substrate without causing damage.



How Casttec works

Like many other bonding solutions in the precast sector, Casttec adhesives are designed to provide a tough but temporary bond in the construction of formwork, prior to concrete pouring.

Applied via specially designed hot melt applicators, the adhesives have enough working time to allow accurate positioning of inserts to formwork, with their high tack ensuring an instant hold.

Within minutes, the bond is strong enough to withstand the rigours of both the pouring and vibrating processes. After 24 to 48 hours, the adhesive will become brittle enough that the bond is easily broken, and the residue adhesive scraped from the substrates. This whole process allows formwork and inserts to be reused with minimal cleaning or repair.



Adhesive Breakdown

Adhesive	Description
Casttec 39	Low temperature application grade for heat-sensitive substrates.
Casttec 40	Light-form grade designed for fragile substrates – easily removable.
Casttec 42	General-purpose formulation – good heat-resistance.
Casttec 43	Tough overall bond designed for repeated pour cycles – extended open time.
Casttec 44	Extreme performance grade – longer open time with toughest bond for repeated pour cycles.
Casttec 45	Cold climate specialist formulation – high viscosity
Casttec 47	High temperature specialist formulation – more brittle at lower temperatures

All grades available in 15mm (5/8") sticks, 43mm (1 3/4") slugs and in bulk pillows.

Tec Applicators

Tec 3500

The most powerful non-pneumatic tool in the Tec applicator range. The Tec 3500 is the perfect combination of output and ergonomics, to keep you working all day with minimal effort. Complete with a selection of plug-in modules to accurately dictate output temperature, the Tec 3500 is the ideal applicator for attaching inserts, reveals and chamfers to formwork.



Melt Rate 3.4kg (7.5lbs)/hr

Temperature Variable between 130°C (265°F) & 215°C (419°F)

Power Source Mains Powered

Tec 3508

The world's first cordless 43mm (1 3/4") applicator. The Tec 3508 takes all the benefits of the Tec 3500, and removes the cable for greater portability, control and operator safety. Compatible with DeWalt 54V battery system*, the tool delivers approximately 3 hours of runtime on a 9Ah battery thanks to its auto shut-off during periods of non-use.



Melt Rate 3.2kg (7.lbs)/hr

Temperature Variable between 130°C (265°F) & 215°C (419°F)

Power Source Battery Powered

Tec 7300

The pinnacle of hot melt application technology. The Tec 7300 is a pneumatically assisted hot melt applicator designed to dispense adhesive in a swirl pattern, covering a greater area than possible with a traditional bead tool. Engineered to maintain steady adhesive flow at lower temperatures than a bead applicator, the Tec 7300's output pattern is fully adjustable to meet all bonding requirements, including on heat-sensitive substrates.



Melt Rate 5.25kg (11.25lbs)/hr

Temperature 180°C (350°F)

Power Source Mains Powered

Tec 808

Designed for lower volume applications, the cordless Tec 808 is a lightweight 15mm (5/8") applicator for users who don't require the output of the larger 43mm (1 3/4") tools. Compatible with the Ryobi 18V battery system*, the tool can run on many of the most popular battery systems thanks to a selection of battery adapters.



Melt Rate 2kg (4.5lbs)/hr

Temperature 195°C (380°F)

Power Source Battery Powered

*Please note: "DeWalt®" is a registered trademark of The Black and Decker Corporation and "Ryobi®" is a registered trademark of Techtronic Cordless GP. The trademark owner and its brands have no association or affiliation with Power Adhesives or any Power Adhesives product.

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Casttec vs Other Fixing Methods

	Casttec	Other Fixing Methods
Low Cost	✓	✗
Non-Destructive	✓	✗
Works across all materials	✓	✗
No surface preparation	✓	✗
Ability to reuse forms & inserts	✓	✗

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