

## FAST & STRONG EPOXY ADHESIVE - ET503

**Chemical Concepts<sup>™</sup>**  
Our expertise is your solution.  
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**Permabond ET503 is a two-part, fast curing epoxy adhesive that offers rapid strength development without compromising on bond quality.**

Rapid-set epoxies don't have much time to build up strength via crosslinking before they cure. This can result in lower shear strengths and a tendency to be brittle.

Permabond ET503, on the other hand, ensures a strong bond and optimal crosslinking while curing much more quickly than most other epoxies.

ET503 bonds metals, woods, ceramics, and some plastics (including ABS, PVC, and polycarbonate.) Its fast cure ensures a working strength at room temperature in just 20 minutes. The adhesive has excellent environmental resistance and is therefore great for outdoor applications.



### KEY FEATURES:

- ▶ Bonds well to a wide variety of substrates
- ▶ Very fast cure speed
- ▶ Excellent strength and toughness
- ▶ Resistant to water and humidity
- ▶ Pale, dove grey color
- ▶ Excellent environmental durability; great outdoors
- ▶ Sandable & paintable
- ▶ 1:1 mix ratio, easy to dispense
- ▶ Solvent-free
- ▶ Cures tack-free
- ▶ Reaches excellent strength even when cured at 5°C (40°F)

### IDEAL FOR BONDING:

- ABS
- Aluminum
- CFRP
- Concrete
- GRP
- Mild Steel
- PC
- PVC
- Stainless Steel
- Tarmac
- Wood
- *And many more*



 **DESCRIPTION**

The following technical data for Permabond ET503 is a guideline and does not constitute a specification. For full technical information, please refer to the technical data sheet, available at [www.permabond.com](http://www.permabond.com). Please contact Permabond to discuss your project.

	ET503
Description	Fast-curing two-part epoxy
Appearance	Dove grey
Features	Rapid cure at room temperature. Very tough, versatile, great environmental & water resistance
Viscosity	15,000 cP (mPas) mixed at 25°C
Max. gap fill	1 mm (0.04")
Shear strength	20-26 N/mm <sup>2</sup> (2,900 - 3,770 psi) Mild Steel
Hardness	Shore D 50
Water absorption	0.8% (7 days @ 25°C)
Fixture time	6 Minutes @23°C
Working strength	20 Minutes @23°C
Storage temperature	Between 5°C & 25°C (41 & 77°F)
Packaging	50ml & 400ml bottles



**Is your surface ready for bonding?**

Permabond ET503 will bond many surfaces as received. However, abrading and degreasing beforehand will provide you with the greatest results.

Unsure if your surface is ready for bonding? Try using Permabond 2K Primer - a handy system designed to show you when the surface is in the best possible condition for bonding.



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