

ET503 - Fast & Strong Epoxy Adhesive

Permabond ET503 is a two-part, fast curing epoxy adhesive which offers rapid strength development without compromising on bond quality. Generally speaking, rapid-set epoxies don't have much time to build up strength via crosslinking, resulting in lower shear strengths and a tendency to be brittle.

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

ET503 is suited to bonding a wide variety of substrates, including 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.

Ideal for bonding:

ABS

Aluminum

Carbon fiber

Concrete

Glass fiber

Mild steel

PC

PVC

Stainless steel

Tarmac

Wood

+ many more materials

Permabond® ET503 Features & Benefits

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



Permabond ET503

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.

Our experienced worldwide trained distributor network means no matter where in the world you are located, Permabond representatives can be called upon to assist you with your projects.

	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 ² (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 only serve to 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.



Contact Permabond for more information.

www.permabond.com



• The Americas 800-640-7599
732-868-1372
info.americas@permabond.com

• Europe +44(0)1962 711661 • Asia + 86 21 5773 4913
UK - 0800 975 9800 info.asia@permabond.com
Deutschland 0800 101 3177
France 0805 111 388
info.europe@permabond.com

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