Permabond®

ISO 9001 Certified
"Our Science ... Your Success"

ET503 - Rugged & Ready Epoxy Resin

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 and polycarbonate.) Its fast cure ensures a working strength at room temperature in just 20 minutes. It will even reach almost full strength at 5°C, allowing for much greater flexibility in curing settings. The adhesive has excellent environmental resistance and is therefore great for outdoor applications.



ET503 cures completely tack-free, has a smart dove grey colour once cured, and is very easy to dispense due to its 1:1 mix ratio.

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
- Sandable & paintable
- 1:1 mix ratio, easy to dispense
- Solvent-free
- Cures tack-free
- Pale, dove grey finish - smart on appliances
- Reaches excellent strength even in temperatures as low as 5°C

Ideal for bonding:

- ***ABS***
- ***Aluminium***
- ***Carbon fibre***
- ***Concrete***
- ***Glass fibre***
- ***Mild steel***
- ***PC***
- ***PVC***
- ***Stainless steel***
- ***Tarmac***
- ***Wood***

+ many more materials





Permabond® Engineering Adhesives

ET503 Product data

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 bespoke applications.

	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 mPas (mixed) at 25°C
Max. gap fill	1mm
Shear strength	20-26 N/mm^2 Mild Steel
Hardness	Shore D (50)
Water absorbtion	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
Packaging	50ml & 400ml bottles



Failing to prepare, is preparing to fail!

Much as it's a chore, surface preparation is key to acheiving the strongest bond in any application. When using ET503, abrading and degreasing beforehand will only serve to provide you with the greatest results. Better yet, try using Permabond 2K Primer - a handy system designed to show you when the surface is in the best possible condition for bonding.



Authorised distributor stamp:

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