

# Permabond®

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

## TA4208 BLACK - READY FOR ACTION ADHESIVE

Permabond TA4208 Black is a multi-purpose, high viscosity, non-slumping toughened acrylic with a jet black finish. It bonds well to many substrates including metals, plastics, composites, ceramics and woods, and is particularly well-suited to bonding dissimilar materials. In addition, its colour lends itself well to matching certain composites, such as carbon fibre. It has a quick cure, and, once bonded, offers high shear and peel strengths on most substrates.

*Ideal for bonding:*

**Aluminium**

**Carbon Fibre**

**Ceramic**

**Composites**

**FRP**

**GRP**

**PET-G**

**PMMA**

**Polycarbonate**

**PVC**

**Stainless Steel**

**Steel**

**Tin**

**Wood**

**Zinc**

+ many more materials



One of TA4208 Black's standout features is its surface adhesion technology. This allows it to bond through oxide layers, and it can even achieve a strong bond on oily metal surfaces. This negates the need for thorough surface preparation before bonding, saving both time and energy during production.

This adhesive offers great weather and chemical resistance, as well as quick strength development. This makes it very suitable for outdoor applications. In addition, its non-slumping nature renders it highly suitable for vertical applications. It can be easily applied using a dispensing gun.

### *Permabond® TA4208 Black Example applications*

- Automotive composite bonding
- Wind turbine bonding
- Sports equipment
- Medical devices
- Medical equipment, such as prosthetics

### *Permabond® TA4208 Black Features & Benefits*

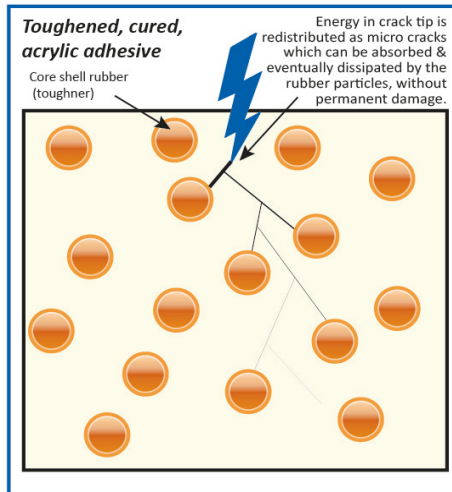
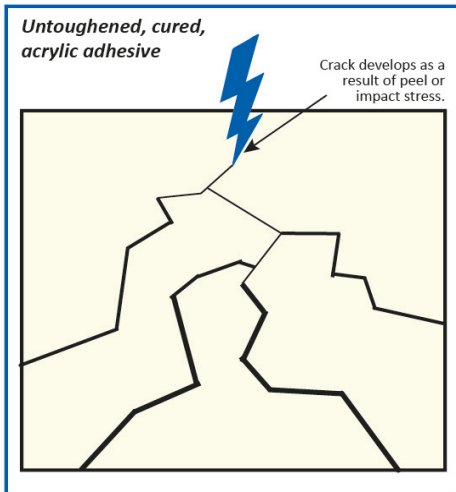
- Jet black finish - ideal for colour matching
- Surface adhesion technology means minimal surface preparation required
- Fast cure at room temperature
- High shear and peel strength
- Good impact strength
- Good chemical & environmental resistance
- Bonds well to unprepared aluminium
- Non-slumping - great for vertical applications



# TA4208 BLACK Product Data

The following technical data for Permabond TA4208 Black 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). Our experienced worldwide trained distributor network means no matter where in the world you are located, Permabond representatives can be called upon to assist with your bespoke applications.

TA4208 BLACK	
Description:	Non-slumping, 1:1 mix MMA structural acrylic
Appearance:	A: Straw B: Black Mixed: Jet black
Features:	Little / no surface preparation required, very high strength, bonds dissimilar materials, great environmental and chemical resistance.
Viscosity @ 25C:	A: 75,000 mPas B: 118,000 mPas Mixed: 96,500 mPas
Gap fill:	3mm
Handling time:	10-15 Minutes
Full Strength:	24 Hours
Shear strength:	Aluminium: 29-33 N/mm <sup>2</sup> Steel: 27-31 N/mm <sup>2</sup> Electro-plated zinc: 19-23 N/mm <sup>2</sup> Polycarbonate: 9 N/mm <sup>2</sup> (Substrate failure) Carbon fibre: 13-17 N/mm <sup>2</sup>
Temperature:	120°C
Packaging:	50ml Cartridge 400ml Cartridge



*Microscopic view of cured acrylic adhesive with & without core shell rubber particles for enhanced strength & impact resistance.*

**Authorised distributor stamp:**



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The information given and the recommendations made herein are based on our experience and are believed to be accurate. No guarantee as to, or responsibility for, their accuracy can be given or accepted, however, and no statement herein is to be treated as a representation or warranty. In every case we urge and recommend that purchasers, before using any product, make their own tests to determine, to their own satisfaction, its suitability for their particular purposes under their own operating conditions. Always refer to current product technical datasheet for most recent and accurate technical information.