

## Epoxies for food & drink applications

Permabond's range of food grade epoxy adhesives has been formulated with various food and water approvals or compliances in mind. These two-part epoxy adhesives cure at room temperature when mixed and bond a wide variety of substrate materials.

### Compliances or Approvals covered:

FDA 175.105 & FDA 175.300  
WRAS Drinking Water Approval  
EU Food Contact 10/2011

### Ideal for bonding:

- ABS\*
- Acrylic\*
- Aluminium
- Brass
- Ceramic & Stone
- Chrome
- Composite
- Glass
- Laminate
- Marble
- Nylon\*
- Polystyrene\*
- Porcelain
- PVC (Rigid)\*
- Stainless Steel
- Steel
- Zinc

+Many more materials  
\*Subject to suitable surface preparation

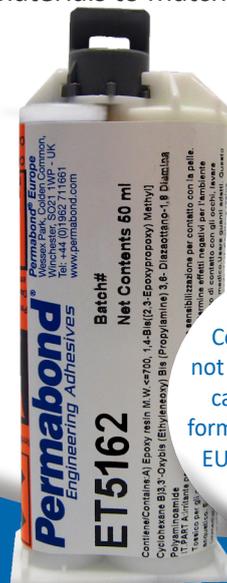
### Permabond® Epoxies for food and drink Features & Benefits

- Toughening - ideal for bonding dissimilar materials
- Easy 1:1 or 2:1 mix ratio - can be manually applied or used with automatic dispensing equipment
- Able to bond a wide variety of substrate materials including stainless steel, plastics and composites
- Gap filling products available
- High shear strength and high peel strength
- Can be heated to accelerate cure speed

### Ideal For:

- Bonding food processing machinery for use in food production lines
- Bonding filter end caps and other filter components
- Bonding mesh filter gauze and separating sieves
- Coffee machines, drinks and icecream dispensing machines
- Kitchenware, crockery, cutlery, kitchen fittings and catering equipment

Permabond can custom formulate with FDA and EU 10/2011 compliant raw materials to match your specific requirements.



**New!**

Countries that prefer not to use FDA guidelines can consider ET5162-formulated to comply with EU 10/2011 legislation.

# Food Grade Epoxy Product Data

The following technical data for Permabond food grade epoxies is a guideline and does not constitute a specification. 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 you with your bespoke applications.

## Product Data

Grade	ET5143	ET5145	ET5147	ET5162	ET5365
Compliance / Approval	FDA 175.105 & FDA 175.300	FDA 175.105 & FDA 175.300	FDA 175.105 & FDA 175.300	EU Food Contact 10/2011 & FDA 175.105	WRAS Drinking Water approval
Appearance	A: White B: Black Mixed: Grey	A: White B: Ivory Mixed: Off-white	A: White B: Ivory Mixed: Off-white	A: Off-white B: White Mixed: Off-white	A: Cream B: Black Mixed: Grey
Viscosity @ 25°C	Thixotropic	Thixotropic	Thixotropic	Light thixotropic	Thixotropic
Mix Ratio	1:1	1:1	2:1	2:1	2:1
Pot Life	60-80 mins.	50-80 mins.	40-60 mins.	70 mins.	20 mins.
Handling Time	3-5 hrs	3-5 hrs	3-5 hrs	6 hrs	2-4 hrs
Working Strength	@23°C: 16 hrs @60°C: 30 mins	@23°C: 16 hrs @60°C: 30 mins	@23°C: 16 hrs @60°C: 30 mins	@23°C: 12 hrs @60°C: 30 mins	@23°C: 6 hrs @60°C: 30 mins
Shear Strength (steel)	18-22 MPa	19-21 MPa	18-20 MPa	20 MPa	10-14 MPa
Service Temperature	-55 to +80°C	-55 to +80°C	-55 to +120°C	-40 to 80°C (+120°C Peak)	-40 to +120°C
Packaging	10 x 50ml cartridges	10 x 50ml cartridges	10 x 50ml cartridges	10 x 50ml cartridges	10 x 50ml cartridges
	6 x 400ml cartridges	6 x 400ml cartridges	6 x 400ml cartridges	6 x 400ml cartridges	6 x 400ml cartridges
	1 x 5kg A or B	1 x 5kg A or B	1 x 5kg A or B	1 x 5kg A or B	2x5kg A + 1x5kg B
Storage	5 - 25°C	5 - 25°C	5 - 25°C	5 - 25°C	5 - 25°C

Can't see exactly what you need? Contact us today for free technical help and custom formulation development. (Niche products may be subject to MOQ and special lab approval required for samples)



[www.permabond.co.uk](http://www.permabond.co.uk)  
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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.