

Features & Benefits

- Does not creep or shrink
- Improved stress distribution
- No shimming effect
- No loose particles to clog airways, etc.

Approvals

KTW-BWGL Drinking Water Compliant /
WRAS Drinking Water Approval

Typical Performance of Cured Adhesive

Torque strength (M10 steel ISO 10964)	Break 10 N·m 90 in.lb Prevail 8 N·m 70 in.lb
Shear strength (Steel collar & pin ISO 10123)	12 MPa 1700 psi
Coefficient of thermal expansion	90×10^{-6} mm/mm/°C
Dielectric strength	11 kV/mm
Thermal conductivity	0.19 W/(m.K)

Description

PERMABOND® A136 is an anaerobic material designed for making 'formed in situ' gaskets between metal surfaces. It is capable of replacing a wide range of conventional gaskets, thereby offering potential for reduced stock holdings. By allowing surface-to-surface contact, load transmission can be improved. As the product does not shrink, creep or relax after curing, no bolt re-tightening is required. Its excellent chemical resistance allows its use with a wide variety of gases and liquids.

Typical Physical Properties of Uncured Adhesive

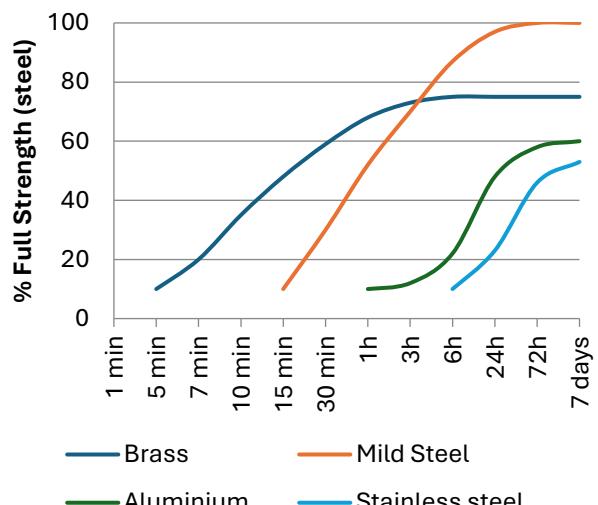
Chemical composition	Acrylic
Appearance	Red
Viscosity @ 25°C	2rpm: 75,000 mPa.s (cP) 20rpm: 18,000 mPa.s (cP)
Specific Gravity	1.1
UV fluorescence	Yes

Typical Curing Properties

Maximum gap fill	0.5 mm 0.02 in
Time taken to reach handling strength (M10 steel) @23°C*	<30 minutes
Time taken to reach working strength (M10 steel) @23°C	2 hours
Full strength (M10 steel) @23°C	24 hours

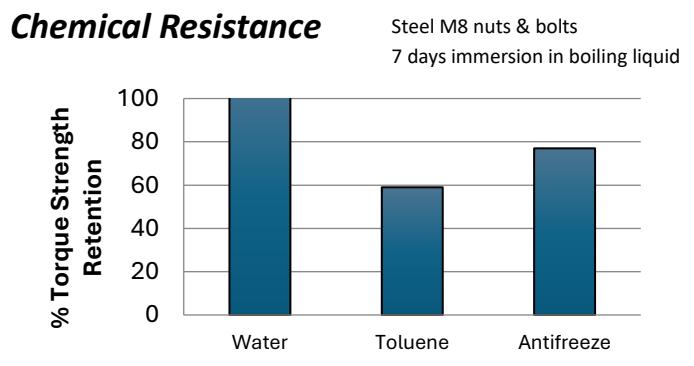
*Handling time at 23°C / 73°F. Copper and its alloys will make the adhesive cure more quickly, while oxidised or passivated surfaces (like stainless steel) will reduce cure speed. To reduce curing time, use Permabond® activator A905 or ASC10. Alternatively, increasing the curing temperature will reduce curing time.

Strength Development



*Cure times are typical at 23°C. Copper and its alloys will follow the faster cure while oxidised or passivated surfaces like stainless steel will tend towards the slower curve. Lower temperatures or large gaps will tend to extend the cure time. To reduce the cure time the use of Permabond® A905, ASC10, or heat can be considered.

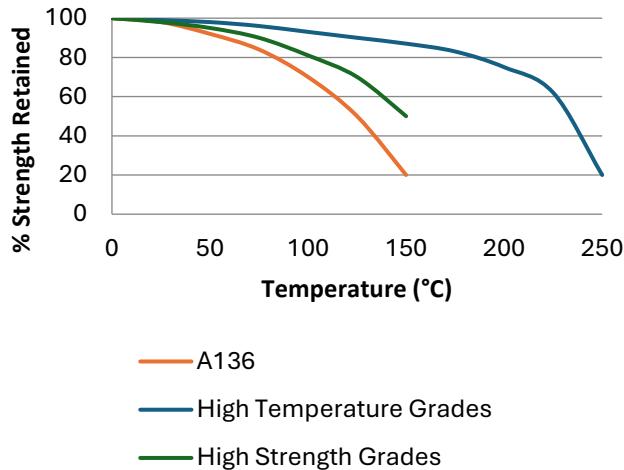
Chemical Resistance



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Hot Strength



**"Hot strength" Breakaway strength on M10 Zinc plated bolts according to ISO 10964. Cured at 23°C for 24 hours then conditioned for 30 minutes at testing temperature.

Permabond® A136 can withstand higher temperatures for brief periods (such as for paint-baking and wave soldering processes) provided the joint is not unduly stressed.

This product is not recommended for use in contact with oxygen, oxygen rich systems and other strong oxidizing materials. This product may adversely affect some thermoplastics and users must check compatibility of the product with such substrates before using.

Surface Preparation

Though the anaerobic adhesives will tolerate a slight degree of surface contamination, best results are obtained on clean, dry and grease free surfaces. The use of a suitable solvent-based cleaner (such as acetone or isopropanol) is recommended.

In general, roughened surfaces (~25µm) give higher bond strengths than polished or ground surfaces.

To reduce the curing time, especially on inactive surfaces (such as zinc, aluminium and stainless steel), the use of Permabond® A905 or ASC10 can be considered.

Directions for Use

- 1) Apply as a bead, by roller, silkscreen or stencil. Ensure all potential leak paths such as flange bolt holes are encircled.
- 2) Removal: use normal tools to prise the surfaces apart.
- 3) Ensure old adhesive is removed before reassembling the parts.

NB: Adhesive outside of a closed joint (i.e., excess material) will remain uncured due to air contact. Adhesive inside the joint will cure solid. Ensure the adhesive viscosity is suitable for your thread size.

Video Link

Gasketmaker directions for use:

<https://youtu.be/BwrmjKFeSbc>



Storage & Handling

Storage Temperature	5 to 25°C (41 to 77°F)
Users are reminded that all materials, whether innocuous or not, should be handled in accordance with the principles of good industrial hygiene. Full information can be obtained from the Safety Data Sheet.	

This Technical Datasheet (TDS) offers guideline information and does not constitute a specification.

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