Technical data sheet



| Product: | ET5402 |
|----------------|---------------------------------|
| Manufacturer: | PERMABOND ENGINEERING ADHESIVES |
| Product group: | KLEBSTOFF |
| Article group: | 2-K KLEBSTOFF |
| Download: | 23.05.2025 |

PERMABOND ET5402

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Permabond ET5402 Provisional Data Sheet

General Description

Permabond ET5402 is a two-part, 2:1 mixable, semi-flexible toughened no slump epoxy adhesive with good adhesion to a variety of substrates such as wood, metal, ceramics and some plastics and composites. Permabond ET5402 forms tough bonds providing high peel resistance and high shear strength coupled with excellent resistance to high temperatures.

Physical Properties

| | ET5402A | ET5402B | |
|---------------|-------------|--------------------|--|
| Chemical type | Epoxy resin | Polyamine hardener | |
| Colour | Black | Black | |
| Viscosity | Thick paste | Thick paste | |

Typical Performance

| Mix ratio | By volume | 2:1 |
|--|-----------------------|-----------------|
| Maximum gap fill | | 5mm |
| Usable life – 3g A+B | @ 20°C | 10 – 12 minutes |
| Handling time | @ 20°C | 30 – 60 minutes |
| Full cure at 25°C | | 4 – 7 days |
| at 80°C | | 1 hour |
| Lap shear strength after 24 hours at 23°C 1 hour cure at 80°C | MPa (mild steel) | 10 30 |
| Peel strength after 1 hour cure at 80°C | N/25mm (aluminium) | 140-160 |
| Service temperature* | | -55 to +150°C |

*Higher temperatures may be endured provided the adhesive is not unduly stressed.

Surface Preparation

Surfaces should be clean, dry and grease-free before applying the adhesive. Permabond Cleaner A is recommended for the degreasing of most surfaces. Some metals such as aluminium, copper and its alloys will benefit from light abrasion with emery cloth (or similar), to remove the oxide layer.

Adhesive Application

- For bulk application ensure the resin and hardener are thoroughly mixed and in the correct proportion.
- Apply the adhesive to one surface and avoid entrapping air.
- Assemble parts applying sufficient pressure to ensure the adhesive spreads to cover the entire bond area.
- Use a jig / clamp to prevent parts moving during cure.
- It is advisable not to disturb the joint until the adhesive is fully cured

Storage and Handling

Storage Temperature5 to 25°CShelf Life12 months

Stored in original unopened containers

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 Material Safety Data Sheet.

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