

### Features & Benefits

- Free from solvents, isocyanates, silicones and PVC compounds, non-corrosive
- Cures at room temperature
- No mixing required
- Self-levelling
- Can be painted after curing
- Suitable for a variety of substrates
- Primer free
- Easy to apply
- Versatile – weather resistant

### Description

PERMABOND® MS359A GREY is a single-part, moisture curing MS polymer adhesive. It is ideal for use on a wide variety of substrate materials and is ideal for potting and sealing electronic components, sealing filters, and bonding large metal panels (such as transport containers, air conditioning ducts etc.).

### Physical Properties of Uncured Adhesive

Chemical composition	MS-Polymer
Appearance	Grey
Viscosity @ 25°C	20rpm: 10,000-25,000mPa.s (cP)
Specific gravity	1.5

### Typical Curing Properties

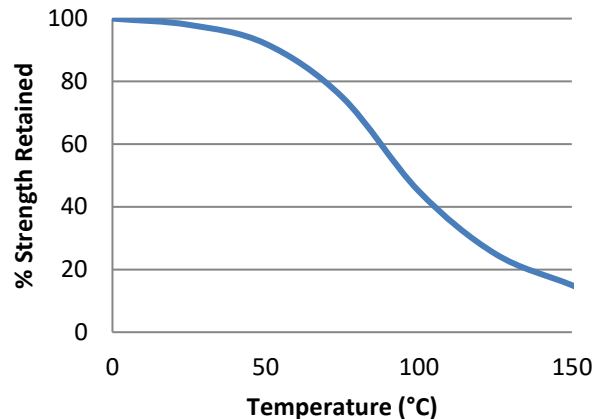
Curing mechanism	Humidity
Skin over time	10-20 minutes
Cure rate	Approx. 3-4mm / 24 hours

### Typical Performance of Cured Adhesive

Shear strength (ISO4587)	Steel: 1-2 MPa (150-290psi) Aluminium: 1-2 MPa (150-290psi) Zinc: 1-2 MPa (150-290psi) PVC: 1-2 MPa (150-290psi) Polycarbonate: 0.5-1 MPa (70-150psi) Polystyrene: 0.5-1 MPa (70-150psi) Wood: 1-2 MPa (150-290psi)
Tensile strength (ISO37)	0.5-1.5 MPa (70-150psi)
Elongation at break (ISO37)	100-170%
Hardness (ISO868)	40-50 Shore A

\*Strength results will vary depending on the level of surface preparation and gap.

### Hot Strength



“Hot strength” shear strength tests performed on mild steel. Fully cured then conditioned to pull temperature for 30 minutes before testing. MS359A GREY can withstand higher temperatures for brief periods (such as for paint baking and wave soldering processes) providing the joint is not unduly stressed. The minimum temperature the cured adhesive can be exposed to is -40°C (-40°F) depending on the materials being bonded.

The information given and the recommendations made herein are based on our research and are believed to be accurate but no guarantee of their accuracy is made. In every case we urge and recommend that purchasers before using any product in full-scale production make their own tests to determine to their own satisfaction whether the product is of acceptable quality and is suitable for their particular purpose under their own operating conditions. THE PRODUCTS DISCLOSED HEREIN ARE SOLD WITHOUT ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED.

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## Additional Information

This product is not recommended for use in contact with strong oxidizing materials.

Information regarding the safe handling of this material may be obtained from the safety data sheet (SDS).

Users are reminded that all materials, whether innocuous or not, should be handled in accordance with the principles of good industrial hygiene.

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

### Surface Preparation

Surfaces should be clean, dry and grease-free before applying the adhesive. Use a suitable solvent (such as acetone or isopropanol) for the degreasing of 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.

### Directions for Use

- 1) Surfaces must be clean, dry and grease-free prior to bonding.
- 2) Use a caulking gun to dispense adhesive directly from cartridge.
- 3) If it is hard to extrude, warming the cartridge will reduce the viscosity and allow easier dispensing.
- 4) The adhesive can be spread with a spatula if required.

### Video Links

Surface preparation:

<https://youtu.be/8CMOMP7hXjU>



MS Polymer directions for use:

<https://youtu.be/mie4Oqq4wtM>



## Storage & Handling

Storage Temperature	5 to 25°C (41 to 77°F)
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## Other Products Available

### Anaerobics

- Thread lockers
- Thread sealants
- Gasket makers
- Sealants / retainers

### Cyanoacrylates

- Instant adhesives
- For rapid bonding of metals, plastics, rubber and many other materials

### Epoxies

- Two-part room temperature cure adhesives
  - Single-part heat cure adhesives
- Modified Technology (MT) flexible grades available

### MS-Polymers

- Single-part, moisture-curing, flexible sealants

### Polyurethanes

- Two-part room temperature curing adhesives

### Toughened Acrylics

- Rapid curing, high strength structural adhesives

### UV Light Cured Adhesives

- Glass / plastic bonding
  - Optically clear
  - Non-yellowing

[www.permabond.com](http://www.permabond.com)

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Permabond MS359A GREY

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