

### Features & Benefits

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

### Description

PERMABOND® MS359 GREY is a single-part, moisture curing MS polymer adhesive. It is ideal for use on a wide variety of substrate materials including metals, plastics and composites. It is ideal for exterior construction applications (e.g. frames and fascias) as it has excellent resistance to weathering.

### Physical Properties of Uncured Adhesive

Chemical composition	MS-Polymer
Appearance	Grey
Viscosity @ 25°C	5rpm: 1,500,000-2,500,000mPa.s (cP) 1rpm: 4,500,000-9,000,000mPa.s (cP)
Specific gravity	1.5

### Typical Curing Properties

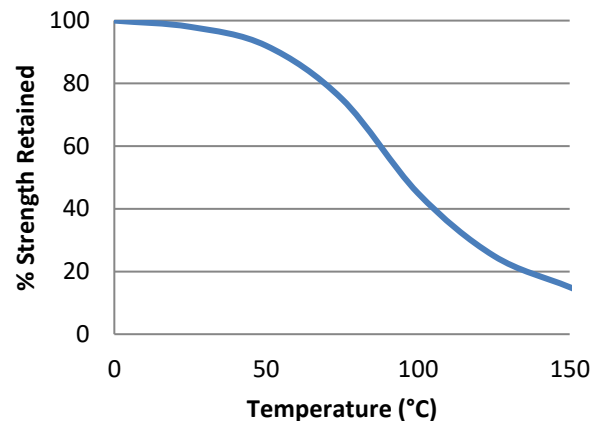
Curing mechanism	Humidity
Skin over time	10-20 minutes
Cure rate	Approx. 5mm / 24 hours

### Typical Performance of Cured Adhesive

Shear strength (ISO4587)	Steel: 2-3 MPa (290-440psi) Aluminium: 2-3 MPa (290-440psi) Zinc: 2-3 MPa (290-440psi) PVC: 2-3 MPa (290-440psi) Polycarbonate: 1-1.5 MPa (150-220psi) Polystyrene: 1-1.5 MPa (150-220psi) Wood: 2-3 MPa (290-440psi)
Tensile strength (ISO37)	2-3 MPa (290-440psi)
Elongation at break (ISO37)	150-350%
Hardness (ISO868)	45-60 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. MS359 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.

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