



# TSE387

## TSE387

### Description

TSE387 is a one-component, oxime curing, silicone adhesive sealant, which cures at room temperature with moisture in the air to an elastomeric rubber. TSE387 has a pourable consistency and excellent adhesion to metals, plastics, ceramics and glass without the use of a primer.

### Key Features and Benefits

- Primerless adhesion to many substrates
- Neutral cure; little risk of corrosion (corrosion to copper and copper alloys)
- Excellent dielectric properties
- Excellent weatherability; ozone and chemical resistance
- Can be supplied in translucent, black, and white
- Simple and easy-to-use one-component system

### Typical Physical Properties

Typical uncured Properties		
Appearance		Flowable material
Tack-free Time at 23°C	minutes	90
Viscosity at 23°C	mPa.s	60.000

Typical cured Properties (7 days @ 23°C / 50% RH)		
Appearance		elastic rubber
Specific gravity	g/cm <sup>3</sup>	1.04
Hardness	Shore A	25
Tensile strength	MPa	1.8
Elongation	%	300
Adhesive Properties (AL/AL)		
Adhesive strength	MPa	1.3
Cohesive Failure	%	100
Electrical Properties (cured)		
Volume resistivity	ohm-cm	1x10 <sup>15</sup>
Dielectric strength	kV/mm	20
Dielectric constant (60 Hz)		2.9
Dielectric loss (60 Hz)		0.004

## Potential Applications

- Industrial sealing and coating.
- Electrical insulation
- Thin section potting of electrical components
- General adhesive for metals, glass and plastics

## Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

## Product Safety, Handling and Storage

The warranted shelf life will be indicated by the 'use before date' on the associated documents with a minimum of 3 months when stored in the original unopened containers below 27° C.

Customers should review the latest Material Safety Data Sheet (MSDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, and any special storage conditions required for safety. MSDS are available at [www.momentive.com](http://www.momentive.com) or, upon request, from any Momentive Performance Materials (MPM) representative. **For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center.** Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

## Processing Recommendations

### Surface Preparation

TSE 387 will bond to many clean surfaces without the aid of primers. These surfaces typically include many metals, glass, ceramic, silicone rubber and some rigid plastics. Where adhesion is required, surfaces should be thoroughly cleaned with a suitable solvent such as naphtha, iso propyl alcohol (IPA) or methyl ethyl ketone (MEK) to remove dirt, oil and grease. The surface should be wiped dry before applying the adhesive sealant. When solvents are used, proper safety precautions must be observed.

## Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

## Availability

TSE387 C is available in 100 g tubes, 333ml cartridges and 18 kg pails. TSE387 W is available in 100 g tubes and 18 kg pails. TSE387 B is available in 333ml cartridges

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**Contact Information** For product prices, availability, or order placement, contact our customer service by visiting [momentive.com/ContactSilicones](http://momentive.com/ContactSilicones).

For literature and technical assistance, visit our website at: [www.momentive.com](http://www.momentive.com)

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