

#### **Technical Data Sheet**



# **TSE382**

## **TSE382**

## **Description**

TSE382 is a one-component, oxime curing, silicone adhesive sealant, which cures at room temperature with moisture in the air to an elastomeric rubber. This product bonds without the use of a primer to substrates like metals, plastics, ceramics and glass.

## **Key Features and Benefits**

- Primerless adhesion to many substrates
- Neutral cure; little risk of corrosion (corrosion to copper and copper alloys).
- Excellent high and low temperature resistance; from -55°C to 200 °C continuous operation.
- Excellent dielectric properties
- Excellent weatherability; ozone and chemical resistance
- Can be supplied in translucent, black, gray and white
- Recognized by UL (File No. E56745) TSE382W and C; UL746 Ti Elec.150°C, Mech. 140°C. TSE382W and C; UL94HB

# **Typical Physical Properties**

Typical uncured Properties				
Appearance		Non-flowable paste		
Tack-free Time at 23°C	minutes	10		

Typical cured Properties (7 days @ 23°C / 50% RH)				
Appearance				
g/cm³	1.04			
Shore A	28			
MPa	1.9			
%	380			
W/m.K	0.18			
Adhesive Properties (AL/AL)				
MPa	1.7			
%	100			
Electrical Properties (cured) 1)				
ohm-cm	1x10 <sup>15</sup>			
kV/mm	23			
	g/cm³ Shore A MPa % W/m.K AL/AL) MPa % cured) 1) ohm·cm			

Dielectric constant (60 Hz)	2.9
Dielectric loss (60 Hz)	0.004

1) are measured acc to JIS K6249 on 1 mm thick sheets

## **Potential Applications**

- A Waterproof sealant for electrical and communication equipment
- Air-tight sealant for meters to keep out water and dust
- Oil leakage preventive sealant for automotive engine parts
- 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**

This product releases methyl ethyl ketoxime vapours during cure. Adequate ventilation must be maintained in the work place at all time.

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 <a href="https://www.momentive.com">www.momentive.com</a> 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 382 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**

TSE382C is available in 100 g tubes, 333ml cartridges and 18 kg pails.TSE382W is available in 100 and 180-gram tubes, 333ml cartridges and 18 kg pails.TSE382G and B in 333ml cartridges

#### **Contact Information**

For product prices, availability, or order placement, contact our customer service by visiting momentive.com/ContactSilicones.

For literature and technical assistance, visit our website at: www.momentive.com

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