

# Pensil™ 300

## Alkoxy Fire Retardant Sealant

### Product Description

Pensil 300 is a one part neutral curing silicone sealant for sealing joints to control the spread of fire, smoke, toxic gases and water during fire conditions. Pensil 300 has excellent primerless adhesion to most common building materials as glass, glazed surfaces, treated wood, aluminum, steel, masonry and concrete. The sealant's excellent movement accommodation makes it an ideal product for joints where fire resistance must be maintained without loss of adhesion or rupture resulting from normal environmental movement. The fire retardant additives used in Pensil 300 do not contain halogens or isocyanates.

### Key Features and Typical Benefits

Excellent fire prevention performances confirms to several European specifications.

#### Versatility in Applications:

- Compatible with most building materials
- High movement capability
- Available in black, white and aluminum grey. Other colors available upon request and subject to minimum order quantity
- Long term durability

#### Ease of Application:

- No mixing, easy gunnability
- Long tooling time, 20 to 30 minutes
- Excellent adhesion (primerless) to most common building materials

### Potential Applications

- Perimeter joints around fire doors
- Cap beading fire protective glazing
- Pipe, cable and channel entries through walls and doors
- Expansion joints

## Typical Physical Properties

### Typical Properties—Supplied

Property	Value <sup>(1)</sup>	Test Method
Consistency	Paste	
Polymer	100% silicone	
Specific Gravity	1.4 kg/L (g/cm <sup>3</sup> )	
VOC (LEED)	27 g/L	WPSTM C145
Work Life (tooling time)	20-30 minutes	
Tack Free Time	120 minutes (@ 23°C (73°F), 50% RH)	SE-Q90 158
Creep/Flow	0 mm at 5 °C and at 50 °C	EN ISO 7390:2005
Shelf Life	18 months	

### Typical Properties—Cured

Property	Value <sup>(1)</sup>	Test Method
Hardness, Durometer (Type A Indentor)	26	ASTM D2240, ISO 868
Tensile Strength	1.45 MPa (210 psi)	ASTM D412, ISO 37, S2
Elongation	750%	ASTM D412, ISO 37, S2
Tensile at 100% Elongation	0.47 MPa (68 psi)	ASTM D412, ISO 37, S2
Tensile Strength	0.62 MPa (90 psi)	ISO 8339
Elongation	330%	ISO 8339
Tensile at 100% Elongation	0.44 MPa (64 psi)	ISO 8339
Peel Strength (average)	6.9 N/mm	ASTM C794
Volume Loss	2.1%	EN ISO 10563:2018
Elastic Recovery	91%	EN ISO 7389:2005
Joint Movement Capability	± 50% ± 25%	ASTM C719 ISO 11600
Service Temperature Range (after cure)	-50°C to 100°C (-58°F to +212°F)	
Weathering and U.V. Resistance	Excellent	30 year actual ageing test in real life conditions at a Florida external testing facility
Cure Time (6 mm (1/4") deep section)	2-4 days	
Full Cure (most common bead sizes)	10-14 days	

(1) Typical properties are average data and are not to be used as or to develop specifications.

## Installation

All surfaces must be sound, dry, frost free and free of bond contaminations and loose materials. Fill joints completely without air enclosures and tool the sealant within 30 minutes to ensure good contact to the substrate. Remove masking tape immediately after sealant work is completed.

Minimum joint size should be 6 x 10 mm, maximum joint size 50 x 25 mm. Use polyethylene rod or non combustible materials (as stone wool, ceramic fibre or mineral fibre) as joint back-up for optimum fire resistance. Achievable fire rating is depending on the specific joint configuration (see table).

## Specifications

Pensil 300 meets the following specifications:

- **EN13501-1 : 2019**  
Class B-s2-d0  
Not inflammable / no flashover.  
Average smoke production.  
No burning droplets.
- **EN13501-2: 2016** EI 60
- Dubai Civil Defense Certification
- APF-2027 Fire Safety Certification

### **Patent Status**

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the 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**

Material Safety Data Sheets are available upon request from Momentive Performance Materials. When handling or storing the product, take precautions as indicated on the MSDS. Similar information for solvents and other chemicals used with Momentive Performance Materials products should be obtained from your suppliers. When solvents are used, proper safety precautions must be observed.

Customers considering the use of this product should review the latest Safety Data Sheet and label for product safety information, handling instructions, personal protective equipment if necessary, and any special storage conditions required. Safety Data Sheets are available at [www.siliconesforbuilding.com](http://www.siliconesforbuilding.com) or, upon request, from any MPM representative.

### **Limitations**

Customers must evaluate MPM products and make their own determination as to the fitness of use in their particular applications.

### **Storage and Warranty Period**

Warranted shelf life is 18 months from date of manufacture (see use before date on drum label and on cartridge) when stored in original, unopened containers below 25°C in a dry place. Storage outside in freezing conditions or above 25°C should be avoided.

The claims, representations and description regarding the fire rating of the Pensil 300 are based on the conditions of laboratory tests and as such are not reliable for determining, evaluating, predicting or describing the fire resistance of the product under actual fire conditions. Each potential user should determine for himself whether a particular test procedure is meaningful for a particular application.

### **Availability**

Pensil 300 is available in 265 kg drums (584 lbs) and 300 ml cartridges.

**Customer Service Centers**

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