



Pensil™ 300

Alkoxy Fire Retardant Sealant

Fire Stop Silicone 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. Pencil 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 Pencil 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 white, black, limestone and grey
- 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 firedoors
- Cap beading fire protective glazing
- Pipe, cable and channel entries through walls and doors
- Expansion joints



Technical Properties

Uncured Product Data

Density	g/cm ³	1.38	
Application Rate	g/minute	140	3.2 mm orifice, 6.3 bar pressure
Sag	mm	< 2	ISO 7390
Tooling Time	Minutes	30	
Tack Free Time	Hours	5 to 8	
Shelf Life	Months	18	

Cured Product Data

Property	Unit	Typical Value	Standard
Hardness	Shore A	20	ASTM D 2240
Tensile Strength	MPa	1.7	ASTM D 412 (S2 dumbbell)
Tensile Modulus @ 100% Elongation	MPa	0.45	ASTM D 412 (S2 dumbbell)
Elongation at Break	%	> 600	ASTM D 412 (S2 dumbbell)
Tensile Adhesion Modulus @ 100% Elongation	MPa	0.38	ISO 8339 (glass substrates)
Tensile Adhesion Strength at Break	MPa	0.50	ISO 8339 (glass substrates)
Tensile Elongation at Break	%	250	ISO 8339 (glass substrates)
Peel Adhesion Strength	kN/m	7	ASTM C 794
Temperature Resistance	°C	- 40 / + 100	

Values listed are indicative and should not be used as specification.

Instructions for Use

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

Pencil 300 meets the following specifications:

Germany: DIN 18545 class E

DIN 4102-B1, Part 1

France: Label SNJF – 1st category without primer on glass, aluminum and concrete

UK: BS 476 Part 22; BS 5889 part A

(*obsolete since december 1996, replaced by ISO 11.600*).

Italy: UNI 9610/9611

International: ISO 11.600 F + G 25 LM

ISO 834

Belgium: NBN 713.020

US: TT-S-001543-A Type non sag Class A

TT-S-00230C Type 2 Class A

ASTM C-920 Type S grade NS Class 25



Integrity rating in hours (no penetration of smoke and/or toxic gases through)										
Joint Width	Joint Depth	Back Up	BS 476, part 22		NEN 3884 / NEN 6069		NBN 713.020		CSTB 91.3222	CSTB 94.37046
			Type 1	Type 2	Type 1	Type 2	Type 1	Type 2	Type 3	Type 3
20	20	PE 25 mm	4		4					
30	15	PE 40 mm	2		2		4			
30	25	PE 40 mm	4		4					
15	30	PE 25 mm								3 1/2
30	20	PE 30 mm								3 1/2
30	25	PE 40 mm		4		4		4		
20	10	SW 25 mm	4		4					
20	15	SW 25 mm	4		4					
30	10	SW 25 mm	4		4					
30	15	SW 25 mm	4		4					
30	10	SW 40/30 mm					4			
20	10	CF 25 mm	4		4					
30	10	CF 25 mm	4		4					
30	15	CF 25 mm	4		4					
30	10	CF 40/25 mm					4			
50	25	MF 65/30							6	

Limitations

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

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.gesilicones.com or, upon request, from any MPM representative.

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 Pencil 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

Pencil 300 is available in 265 kg drums (584 lbs) and 310 ml cartridges.



Customer Service Centers

For additional information, please contact our [Customer Service Team](#)

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