



AP 3600 Series

Neutral Weatherproofing Sealant

Manufacturer

Momentive Performance Materials Inc

Description

AP 3600 Series weatherproofing Sealant is a one component, medium modulus, neutral cure silicone for use in a wide variety of materials in new or remedial weatherproofing application. Supply as paste, the consistency of which remains relatively unchanged over a wide temperature range. The paste is able to be easily gunned and tooled under hot and cold conditions. Primerless adhesion to many substrates and finishes especially for concrete surface. It has excellent adhesion performance with building materials like glass, metal, mosaic, stone etc. Some finishes or substrates may require a primer.

Packaging

AP 3600 Series Neutral Weatherproofing Sealant available in foil sausage pack (500.0ml) and packaged as 20 sausage in a box.

Colors

AP 3600 Series Neutral Weatherproofing Sealant is available in 2 standard colors, and can be custom colored:

Product Number	Color
AP 3600.03	Black
AP 3600.09	Silver gray

Typical Performance Properties

- Single component and ready to use.
- Neutral curing and odourless
- Semi Matte Finish – Non glossy surface
- Fast skinning and curing
- Excellent Thermal Stability and Elasticity.
- Excellent adhesion to many substates and finishes of most building materials.
- Compatible with Momentive structural and weatherproofing sealant.



Typical Properties

Uncured Performance	Data	Test Method
Appearance	Paste	
Sag/Slump (w=20mm)	<2mm	JIS A1439
Work Life (tooling time)	15 min.	
Tack-free Time	40 min.	JIS A1439
Cure Time (23°C, 55%RH)	2 days	5mm in depth
Cured Performance	Data	Test Method
Appearance	Elastic rubber	
Shore A Hardness	26	ASTM C661
Ultimate Tensile strength	1.5Mpa	ASTM D412
Ultimate Elongation	400%	ASTM D412
Movement Capability	±25%	ASTM C719
Ozone and UV resistance	Superior	ASTM C793
Working Temperature	+4°C to 49°C	ADCT ² -01
Service Temperature	-48°C to 149°C	ADCT ² -13A
Elastic Recovery	>90%	

Note

Specifications Performance data of this product shouldn't be taken as product standards. Please contact Momentive Performance Materials Inc. for individual practical specifications.



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Basic Applications

AP 3600 Series Neutral Weatherproofing Sealant is designed for glass to glass, or glass to metals with less displacement. It can be used for sealing less/non movement surface of concretes, stones and aluminum plates and also as a universal weatherproofing sealant for doors, windows and showrooms.

Limitations

AP 3600 Series Neutral Weatherproofing Sealant is NOT suitable for structural application It should NOT applied to :

- Concrete surfaces which contain residual form oil or other bond breaking contaminants that may interfere the sealant adhesion.
- Building materials which might bleed oil or solvents; these include, but are not limited to, impregnated wood and certain vulcanized rubber gasket or foams, tapes or failed sealants and caulking compounds. When AP 3600 silicone sealant is USED IN REMEDIAL WORK, ALL OLD SEALANT MUST BE REMOVED.
- Areas where atmospheric contaminants might change the appearance of light colored sealants; silicone sealant is weather-resistant and resists chalking, degradation and erosion. As a result, environmental contaminants tends to cling to the sealant and the sealant surface may take on the color of the contaminant. Darker colors should be used to minimize this effect.
- Reflecting, high gloss or light-colored surfaces where aesthetics are critical, until adequate on-site sealant, surface and ambient atmospheric tests simulating building design are conducted to ascertain material compatibility and migration to adjacent surfaces under actual use conditions..
- Unpredictable absorptive surfaces such as marble or limestone, unless a standard or appearance has been agreed upon by the seller and the purchaser as a result of testing for stain or discoloration..
- Totally confined spaces, as the sealant requires atmospheric moisture for completion of cure and generation of properties.
- Surfaces which will be painted, as painting over rubber is not recommended. The paint film does not stretch with the extension or compression of the rubber and the adhesion of the paint to AP3600 silicone sealant is not adequate.
- Unprepared or wet surfaces.
- Do not use water for tooling and do not apply to wet or damp surfaces..
- Surfaces where adhesion has not been verified by on site testing under actual use conditions.

Specifications and Standards

- JIS A5758 (F, G-30SLM)
- ASTM C920, Type S, NS Class 25
- GB14683

Technical Data

AP 3600 Series Neutral Weatherproofing Sealant is basically unaffected by normal weathering conditions such as sunlight, ultraviolet radiation, rain, snow and temperature extremes. Its weatherability enables it to retain its properties after years of exposure. The sealant has resistance to detrimental effects caused by polluted atmospheres and many chemicals and chemical solutions..



Application Method

Surface Preparation

Surface must be clean and dry prior to application of sealant. Recommended cleaning solvent is Isopropyl Alcohol (IPA), Xylene and Toluene has proven useful for most non-porous substrates encountered in architectural construction applications. All the surface preparations should be done within 1 to 2 hours prior to sealant application.

Attention: The solvent might be flammable and/or poisonous, please refer to "MOMENTIVE PERFORMANCE MATERIALS INC., SURFACE PREPARATION FOR SEALANT ADHESION DESIGN GUIDE".

Masking

The use of masking tape is recommended where appropriate to ensure a neat job and to protect adjoining surfaces. Do not allow masking tape to touch clean surfaces to which the silicone sealant is to adhere. Masking tape should be removed immediately after the finish tooling is accomplished and before the sealant begin to cure.

Sealing Procedures

Install back-up material or joint filler, setting blocks, spacer shims and tapes as specified. Do not apply sealant in direct contact with organic rubber such as chloroprene, EPT,, etc. These rubbers may stain the silicone sealant. Cut nozzle to desired bead size, break the membrane film completely and extrude sealant in the joint

Tool immediately, within 5 minutes of application, with a spatula to spread the sealant against the back-up immediately after tooling. Sealant will begin to skin on the exposed surface in about 10 minutes and cure will progress inward. AP 3600 series can be applied at outdoor temperatures as low as -37°C provide that surfaces are clean, dry and frost-free.

Excess sealant should be cleaned from glass, metal and plastic surfaces while still incurred using a solvent. On porous surfaces the excess sealant should be allowed to progress through the initial cure or set-up. It should then be removed by abrasion or other mechanical means.



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Handling and Safety

Measures should be taken to protect eyes as uncured product may irritate eyes. In case of eye, immediately flush eyes well with clean water and contact a physician.. Adequate ventilation must be maintained in the work place at all times. Extended contact with the skin may cause irritation and should be avoided.

Do not use for Food Contact.

Material Safety Data Sheet (MSDS) are available upon request from Momentive. Similar information for solvents and other chemicals used with GE Sealant products may be obtained from your suppliers.

When solvent are used, proper safety precautions must be observed. All solvents must be used only in well-ventilated areas. Exposure to high vapor concentrations must be avoided. When flammable solvents are used, storage, mixing, and use must be in areas away from heat, sparks, flame or other sources of ignition.

Storage and Shelf Life

AP 3600 Series Neutral Weatherproofing Sealant should be stored in a cool, dry and dark place. Shelf life is 12 months from date of manufacture when stored in original, unopened containers below 25°C in a dry place.

Please refer to "Used Before Date" on the package before using it.

Technical Services

Laboratory facilities and application engineering are available upon request from Momentive Performance Materials. Any technical advice furnished by Momentive Performance Materials or any representative of Momentive Performance Materials, concerning any use of application of any sealant is believed to be reliable but Momentive Performance Materials makes no warranty, express or implied, of any use of application for which advice is furnished.

Limited Warranty

Momentive Performance Materials warrants that its product will conform to its specifications at the time of application or use. The product must be stored in accordance with Momentive's recommendations, and used or applied before the earliest of (i) the indicated "use Before Date", (ii) one year from date of purchase, or (iii) expiration of such other period or recommended storage time stated in the GE Sealant product literature. If notified, in writing, of a claim within six months of the product's use or application. Momentive Performance Materials will, as its option, replace or return the purchase price of any GE sealant product which does not satisfy the forgoing warranty.

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