
	ALSEAL MARKETING SDN. BHD.		Issued date : 27/05/15
	Technical Data Sheet		Rev. No. : 0
	AS-205 High Performance Silicone Sealant		Revised date : - Page : 1 of 2

Product Specifications:

Physical Properties

Curing system:	Oxime
Appearance:	Paste
Color:	Translucent, White, Gray, Black
Odor:	Slight unique odor
Specific Gravity:	1.04
Slump (w=20mm) JIS A 1439:	≤1 mm
Tack-Free Time JIS A 1439:	6 - 20 min
Curing time (t=5mm):	2 days
VOC Content:	<4% w/w
Application Temperature:	-20 °C to 50 °C
Service Temperature:	-50 to 150 °C
Shelf life:	12 months

Cured Properties

Appearance:	Elastic rubber
Hardness JIS K 6249:	Shore A 20 - 35
Tensile at break JIS K 6249:	≥1.0 MPa
Elongation at break JIS K 6249:	≥300%
Peel strength:	2.9 kN/m
UV resistance:	Excellent

Product Description:

A one component, high performance, 100% neutral cure silicone sealant formulated to give superior adhesion and durability in a wide range of glazing, weather sealing and trade applications. It complies with the FDA testing method intended for direct food contact. It has excellent resistance to weathering, UV radiation, vibration, moisture, ozone, temperature extremes, airborne pollutants, and many cleaning detergents and solvents.

Applications:



Well-suited for sealing metal lap joints in roofing, guttering and cladding applications. It will bond to form a strong weatherproof seal on most common building materials such as aluminium, galvanized and zinc-coated steel, painted surfaces, glass, brick, concrete and mirror bonding. It is suitable for both indoor and outdoor applications.

Directions:

1. Surface must be clean and dry.
2. Mask smooth surface to simplify clean up.
3. Use approved back-up material in joint.
4. Cut nozzle to desired size.
5. Insert cartridge into caulking gun.
6. Push sealant ahead for uniform bead.
7. Tool within 5 minutes.
8. Clean off excess sealant with M.E.K. or Toluene.

Features:

- Neutral, non-toxic curing system
- Non corrosive to metals
- Non corrosive to alkaline substrates
- Non corrosive to automobiles
- Outstanding durability
- One part no mixing

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- Permanently flexible
- Excellent gun ability (-20°C to 50°C)
- Weather proof
- Low shrinkage
- No sagging
- Primer-less adhesion to most materials

Limitations:

AS-205 High Performance Silicone Sealant is a neutral curing silicone. As with other silicone sealants it is not suitable:

- for areas subject to abrasion (e.g. high traffic areas).
- for polycarbonate and polyacrylate, **if** under tension.
- to be painted.

Joint Design:

The specified sealant bead size should be calculated to comply with the compression and extension capabilities of the sealant in relation to the anticipated joint width due to expansion and contraction.

Generally calculation of the width of VT-210 High Performance Sealant bead should be computed on the basis of a maximum $\pm 30\%$ compression and extension capability; minimum bead size should not be less than 3mm to accommodate movement. Design joint depth of which ratio width becomes 0.5 to 1.

Suitable Joint (Depth vs. Width):

6mm x 6mm

8mm x 12mm

10mm x 20mm

- * Joint size minimum 6mm x 6mm.
- * Joint size maximum 30mm.

Curing Time:

AS-205 High Performance Silicone Sealant will tack free in approximately 15 minutes and will cure to a depth of 10mm in 7 days.

Caution:

Uncured sealant may cause skin, eye and respiratory system irritation. Use only in well ventilated areas.

Use appropriate personal protection to avoid contact with skin and eyes.

In case of eye contact or irritation, flush eye immediately with running water for 15 minutes and get medical attention.

In case of skin contact, wash affected areas with hand cleaner followed by soap and water. Product releases ketoxime during application and curing. For further health and safety information consult the latest Safety Data Sheet.

EUH 208 - Contains 3-(2-aminoethylamino)propyltrimethoxysilane. May produce an allergic reaction.

Storage:

- Store in a dry and cool place with temperature below +30°C.
- Use within 12 months from date of production.

Every endeavour has been made to ensure that the information given herein is true and reliable but it is given only for the guidance of our customers. The company will not accept any responsibility for the loss or damage that may result from the use of the information, due to the possibility of various of processing or working conditions and of workmanship outside our control. Users are advised to confirm suitability of this product by their own tests.

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