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Technical Data Sheet

AS-208 / AS-208C
Glass & Metal Sealant

Physical Properties

Base:
Silicone polymer

Appearance:
Paste (Before curing)
Elastic rubber (After cured)

Colours:
AS-208 – Translucent & Bronze

AS-208C – White, Black, Grey

Tack-free Time:
10 – 30 minutes (at 25 °C & 50% R.H)

Application Temperature:
-20 °C to 50 °C

Service Temperature:
Up to 150 °C

Storage:
Store in a dry and cool place with temperature below 30 °C.

Shelf Life:
12 months

Packaging:

Content	Quantity/ carton
Cartridge - AS-208, AS-208C	
270 mL 280 mL 300 mL	24 24 24
Sausage - AS-208	
500 mL (500 g)	20
Sausage - AS-208C	
500 mL (670 g)	20

Description

ALSEAL Glass & Metal Sealant is a one-component, neutral cure silicone sealant formulated to give superior adhesion and durability in a wide range of glazing, weather sealing and trade applications. It has excellent resistance to weathering, UV radiation, vibration, moisture, ozone, temperature extremes, airborne pollutants, and many cleaning detergents and solvents.

Features

- Neutral curing system
- Low VOC compliant
- ±25 % Movement capability
- Excellent adhesion
- Permanently flexible
- Excellent weather resistance
- Indoor and outdoor use

Applications

- Wide range of glazing, weather sealing, and other applications, including sealing metal lap joints in roofing, guttering and cladding applications.
- It can bond to most common building materials (aluminium, galvanized steel, painted surfaces, glass, concrete, etc.).

Technical Data

	AS-208	AS-208C
Curing system	: Oxime	
Density	: 0.99 g/mL	:1.34 g/mL
Slump (ASTM D2202)	: ≤1 mm	: ≤1 mm
Maximum tensile strength (ASTM D412)	: 1.3 N/mm²	: 1.3 N/mm²
Elongation (ASTM D412)	: 380 %	: 320 %
Shore A hardness (ASTM C661)	: 23	: 37
Movement capability (ASTM C719)	: ±25%	: ±25%
VOC content	: 108.95 g/L	: 88.10 g/L

Approvals/ Specifications

AS-208 meets the requirements of the following specifications:
- ASTM C920, Type S, Grade NS, Class 25, Use NT, A & G
- Low VOC - USEPA Method 24 under SCAQMD rule 1168

Usage Instructions

1. Surfaces must be clean, dry and free of dirt, grease, oil or water.
2. Surfaces should be cleaned with alcohol, M.E.K. or other suitable solvent. Do not use soap or detergent.
3. For a neat finish, apply masking tape and remove it before sealant skins over.
4. Cut nozzle at 45° angle to desired bead-width and apply to substrate with cartridge gun.
5. Tool the sealant within 10 minutes of extrusion before it skins. Tack-free in 20 minutes.
6. Uncured sealant can be cleaned up with mineral spirits.

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AS-208 / AS-208C Glass & Metal Sealant

Clean Up

- Wet sealants can be cleaned up with acetone or mineral spirits.
- Cured sealants can only be removed mechanically.

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 sealant bead should be computed on the basis of a maximum ±25 % movement capability
- Minimum joint depth should not be less than 6 mm to accommodate movement.
- Sealant design joint width-to-depth ratio should be 2:1.

Coverage

Width	Depth	Coverage (280 ml) *	Coverage (300 ml) *
6 mm	6 mm	7.07 meter	7.58 meter
10 mm	10 mm	2.55 meter	2.73 meter
20 mm	10 mm	1.27 meter	1.36 meter
25 mm	12 mm	0.85 meter	0.91 meter

* The coverage figures shown above are approximate linear meter run based on 10% wastage assumption. Actual coverage may vary.

- Calculation formula:

X / [(**Y** x **Z**) x 1.1] = ***Coverage***
X = volume of cartridge (or sausage) in ml,
Y = joint width in cm, **Z** = joint depth in cm,
1.1 = 10% wastage assumption,
Coverage = linear meter run in cm per cartridge

Limitation

Not recommended for following applications:

- Structural glazing applications.
- Below waterline or permanent water immersion.
- Traffic areas subject to abrasion.
- Polycarbonate and polyacrylate, if under tension.
- Applications that requires the sealant to be painted.
- Neoprene rubber.

Caution

Product releases methyl ethyl ketoxime during application and curing. May cause an allergic skin reaction. Causes serious eye irritation. Wear protective gloves and eye protection. IF ON SKIN: Wash with soap and water. IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If skin irritation or a rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse. Keep out of reach of children. Contains aminosilane. May produce an allergic reaction. Safety data sheet available on request. For further health and safety information, consult the latest safety data sheet.

Disclaimer

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 cannot accept any responsibility for the loss or damage that may result from the use of the information, due to the possibility of variations 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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