

antas[®] 193-25

Weatherproof Silicone Sealant 50HM

DESCRIPTION

antas[®] 193-25 is a one component, neutral curing, weatherproof silicone sealant with excellent movement capacity of $\pm 50\%$ and tested to ASTM C920. It is designed for the weatherproof sealing of joints that require high movement capacity eg large panel or high rise curtain walls. antas[®] 193-25 has excellent weather durability, tolerance to large temperature variation.



antas[®] 193-25 is typically used for applications including:

- Weatherproof sealing of glass curtain walls in high rise buildings
- Weatherproof sealing of architectural panels of aluminium or stainless steel.
- Weatherproof sealing of stone façade
- Sealing of panels of large sizes.
- Other bonding and sealing requires high performance weather durability and high movement capacity.

FEATURES

antas[®] 193-25 has excellent properties for high demanding applications:

- Movement capacity of $\pm 50\%$ for

effective sealing in curtain wall or roofing applications.

- Excellent weather durability, resistance to UV and hydrolysis.
- No corrosion or staining to metal, nature stone, engineered stone, ceramic tiles, coated glass, concrete or other most common building materials.
- Easy to use with good tooling and non-sagging properties at 5 to 45°C
- Wide range of temperature tolerance, with good elasticity within -50 to 150°C
- Compatible and good adhesion to other neutral cured silicone sealants.

STANDARD AND COMPLIANCE

- ASTM C 920 Type S, Grade NS, Class 50, Use NT, G, A
- GB/T 14683 SR I Gw 50HM
- GB/T 22083 Class 50HM
- GB/T 23261 Class 50HM

APPLICATION

Prepare the substrate and keep it clean, dry and free from grease. Remove all dirt, oil, grease, detergents and loose material. The joint edges can be masked with tape to prevent contamination. Remove the tape carefully after tooling. Use suitable backing rod to fill the cavity of the joints as needed.

Cut nozzle to desired size at 45° angle and attach to the sealant cartridge or sausage. Insert the cartridge or sausage into a caulking gun. Pull the trigger of the caulking gun to extrude sealant through the nozzle.

Smooth the surface of the sealant filled joint within the tooling time and clean off excess sealant.

TYPICAL PROPERTIES

No.	Test items		Test result
1	Appearance		Paste free of bubble, skin or lump
2	Tack free time, h		<2
3	Extrudability, ml/min		>200
4	Slump, mm (N type)	Vertical	0
		Horizontal	No deformation
5	Elastic recovery, %		>88
6	Tensile Modulus, MPa	23°C	>0.4
		-20°C	>0.6
7	Tensile adhesion at maintained elongation		Intact
8	Adhesion at various temperature		Intact
9	Adhesion after water immersion		Intact
10	Percentage of mass loss, %		<5
11	Staining, mm	Depth	0
		Width	0

CURING TIME

antas[®] 193-25 is cured by reacting with moisture in air. Its skinning time is approximately 20 - 40 minutes. In general, it takes 21 days to be fully cured.

PRIMING

Priming is not usually required when using antas[®] 193-25 providing joint faces are clean and free from any trace of laitance or surface contamination. However, adhesion to substrate and compatibility with surface coatings should always be tested in advance to determine the need of a primer.

If required, a thin film of antas[®] 201 primer can be applied on substrate by using a clean lint-free cloth and allowed to dry before sealant application.

MAINTENANCE & REPAIR

antas[®] 193-25 sealant can be easily repaired when needed. Firstly remove the damaged section and clean the surface with solvent, then patch the section with new sealants of same colour and quality.

LIMITATIONS

antas[®] 193-25 should not be applied under the following circumstances:

- For structural bonding.
- On substrate that bleed oil, plasticiser or solvent etc. For example: impregnated wood; oil-based caulks; green or partially vulcanized rubber gaskets/tapes; bituminous below-grade waterproofing or asphalt-impregnated fiberboard etc.
- In confined spaces or areas lack of ventilation.
- Substrate with temperature over 45°C or below 5°C.
- Wet or damp surface, or continuously immerse under water.
- Other unsuitable conditions determined by trial.

CLEAN UP

Excess sealant can be removed with mineral spirit and cleaning solvent before cured. Once cured, antas[®] 193-25 may be removed mechanically.

SAFETY

Avoid contact with eyes when operating. In case of accident, rinse opened eyes under running water for several minutes.

Keep good ventilation at the construction site. Avoid applying in confined space.

Read and follow material safety data sheet for safe handling or using.

PACKAGING

300ml cartridge, 24 pcs/carton.

590ml sausage, 20 pcs/carton

COLOUR

Black, Grey or White.

goods for transportation.

The product should be stored in a dry and cool place between 5 to 30°C. The shelf life is 12 months from the date of manufacturing under normal storage conditions.

TRANSPORTATION & STORAGE

antas® 193-25 is classified as non-dangerous

ESTIMATED CONSUMPTION

Estimated coverage by meter per piece of antas® 193-25 in 300ml cartridge. Note the estimation is provided as a guide only. The consumption and coverage will be varied depending on application conditions for example joint type, backing material, application method.

Joint thickness, mm	Joint width, mm						
	6	9	12	15	18	21	24
6	8.3	5.5	4.2	3.3	2.8	2.4	2.1
9	-	3.7	2.8	2.2	1.8	1.6	1.4
12	-	-	2.1	1.7	1.4	1.2	1.0

Disclaimer: The statements in this document are based on our present technical knowledge and experience. They do not relieve the applicators from carrying out necessary tests and experiments on their own. Since the conditions of applying our products may vary which can influence results in many ways, this document does not imply any legally binding assurance of certain properties or of suitability for a specific purpose.

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