

Sx-2000

NEUTRAL CURE Silicone Sealant



High Performance Silicone Sealant

Sealex Sx-2000 is a high performance neutral cure silicone sealant 100% silicone rubber. Sealex Sx-2000 cures at room temperature by reaction with moisture in the air to produce a durable, flexible seal that will not crack, crumble shrink or dry out. Cured sealant is unaffected by sunlight (UV radiation), rain, snow, ozone or extreme temperature.

Sealex Sx-2000 meet ASTM C-920 standard specification for Elastomeric joint Sealants

- *Watertight and Weatherproof*
- *Exterior / Interior Use*
- *Non-Corrosive*
- *Permanently Flexible*
- *Excellent Adhesion*
- *Excellent Chemical Resistant*





COMPANY PROFILE

Sealex Chemical Co., Ltd. is a sealant and adhesive manufacturer arm of the Inno-Cons Group of companies. Inno-Cons is a major supplier of construction material throughout the Kingdom of Thailand and South East Asia focusing on products for the construction of metal building, pre-fabricated building, aluminum & glass, precast concrete markets.

Products offered by Sealex include :

- MS Sealants manufactured in cooperation with Kaneka Japan in offering less-stain, less dirt pick-up, anti-fungus, low-VOC, paintable sealant for perimeter, wall joint, all weather applications.
- MS Adhesives offers non-solvent, low-VOC adhesives for flooring, automotive and no-nail applications.
- High performance Silicone and Acrylic Sealants



• Innovation of product



• Educating customers on new products



• Customer Care service that our competitors and business associates speaks about

Features	Benefits
Ready to use	One part, neutral cure that quickly cures at room temperature by reaction with moisture in the air to produce 100% silicone rubber.
Permanently flexible	Cured sealant is permanently flexible with life-expectancy of more than 20 years. (It will not crack, crumble or dry out.)
Long lasting watertight & weatherproof	Cured sealant is unaffected by sunlight, UV, rain, snow, ozone or extreme temperature.
Excellent adhesion	Excellent adhesion to metal sheet, galvanised steel, most painted surfaces, anodized aluminium, glass, concrete, brick, fibreglass and non-oily woods.
Excellent anti-corrosion barrier	Sx-2000 provides an excellent barrier between dissimilar metals where electrolytic corrosion can be a severe problem.
Good chemical resistant	Resists attack from salt water, ultra-violet light, ozone, airborne pollutants, cleaning detergent, oil and most solvents.

Applications

- Glazing and weather sealing
- Steel Pre-Engineered Building
- Metal Roofing & Walling
- Expansion joint
- Door and window frame
- Ducting
- Container and cold storage
- Kitchen and sanitary
- Mirrors and cabinets

* not applicable for structural glazing

Technical Specification

Uncured Sealant - Tested at at 25° C and 50 % RH	
TACK-FREE TIME	40 min. or less.
FLOW, SAG OR SLUMP	Non-sag.
WORKING TIME (TOOLING)	15 min. (Before sealant skin forms.)
CURING TIME (3 mm. BEAD)	24 hours

Cured Sealant - After 7 days at 25° C and 50 % RH	
DUROMETER, SHORE A	26 points
TENSILE STRENGTH	1.3 Mpa
SERVICE TEMPERATURE	- 50° C to + 150° C
MOVEMENT CAPABILITY	± 25 %

Compliance and Approvals

- ASTM C920, Type S, Grade NS, Class 25 – tested by TUV SUD
- Singapore Government’s Housing & Development Board (HDB) Approval List

Limitation

Sealex : Sx 2000 is not recommended for use in continuous water immersion nor for below ground or other joints where excessive abrasion and physical abuse are encountered.

It should not be applied to :

- Building material that bleeds oil or plasticizer.
- Totally closed area where sealant is not exposed to atmospheric moisture.
- Any uncured sealant apart from **Sealex : Sx 2000**

Size of Packaging



Compliance and Approvals

- ASTM C920, Type S, Grade NS, Class 25 – tested by TUV SUD
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Test	'Sealex SX-2000 High Performance Silicone Sealant'	ASTM C920 : 2008 Standard Specification For Elastomeric Joint Sealants
1. Staining And Colour Change	No staining and no colour change	The sealant shall not cause any visible staining on the top surface of a white cement mortar base
2. Extrudability	>10 ml/min	Type S (single component), grade NS (non-sag or gunnable sealant) shall have an extrusion rate time of not < 10 ml/min
3. Rheological (Flow) Properties	Vertical displacement: 0 mm sag Horizontal displacement: No deformation	Grade NS (non-sag) or gunnable sealant shall have flow characteristics such that it does not sag >4.8mm in vertical displacement and shall show no deformation in horizontal displacement (refers to Types II and IV sealants)
4. Indentation Hardness test piece 1, average test piece 2, average	25 25	T (traffic) sealant shall have a hardness reading of not <25 or >50 after being properly cured NT (non-traffic) sealant shall have a hardness reading of not <15 or >50 after being properly cured
5. Tack-Free Time	No transfer of test specimens to the polyethylene film	There shall be no transfer of the sealant to the polyethylene film when tested at 72 hours
6. Adhesion & Cohesion Under Cyclic Movement, Class 25	No bond failure	The total loss in bond and cohesion areas among the three specimens tested for each surface shall not be >9 cm ² with mortar substrates
7. Effects Of Heat Ageing On Weight Loss, Cracking And Chalking, average	0.8% No cracking and chalking	The sealant shall not lose >7% of its original weight or show any cracking and chalking
8. Effects Of Accelerated Weathering	No cracks after UV exposure and bend test	The sealant shall show no cracks after the specified UV exposure and shall show no cracks after exposure at cold temperature and the bend test
9. Adhesion-In-Peel, average	35.6 N (8.0 lbf) cohesive failure within the sealant and no adhesive bond loss between sealant and substrate for each test piece	The peel strength for each individual test shall not be <22.2 N (5 lbf) and the sealant shall show no >25% adhesive bond loss for each individual test
10. Material Identification/ Verification By FTIR	Silicone-based material (refer to Figure 1)	-
11. a. Maximum Tensile Strength, average b. Elongation At break, average c. Modulus Of Elasticity, average	0.6 N/mm ² 186.3% 1.1 N/mm ²	-

LIMITED WARRANTY

The information contained in this document offered in good faith is believed to be accurate. However, as it is beyond our control on the conditions and methods of use of our products by our clients the information contained in this document should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end application.

Sealex warranties that all Sealex products meet the specifications herewith at the time of shipment. In the event of breach of such warranty Sealex is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

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