



# Sx-7000

## WEATHER SEAL

### NEUTRAL CURE SILICONE SEALANT ±50% MOVEMENT CAPABILITY



**Weatherproof High Performance Silicone Sealant**  
Sealex Sx-7000 is a high performance weatherproof silicone for all weather sealant designed with ±50% movement capability according to ASTM C719:2005 Class 50. Sx-7000 is suitable for both indoor and outdoor general glazing and will remain flexible, will not crack, crumble, shrink nor dry-out and is unaffected by sunlight (UV radiation), rain, snow, ozone and extreme temperature.

- Specified for high movement joints like metal expansion joints, curtain walls and facades
- Class 50 glazing sealant tested to ASTM C719:2005 for ±50% movement capability joint applications
- Ideal as a glazing sealant between glass to aluminum and other construction materials
- Weatherproof permanently flexible yet watertight throughout its life span unaffected by UV radiation
- High performance in all weather and extreme temperatures environment
- One part easy to use that requires no priming in almost all construction substrates
- Neutral cure suitable for all steel construction material
- Customized colour is available



PSB Singapore

#### GREEN STANDARDS

- \* LEED 2009 for New Construction and Major Renovations: Low Emitting Materials (Section 4.1), SCAQMD rule 1168 (2005)
- \* ASTM D 2369 EPA Method 24 VOC content 45 g/l or 3.6%

## COMPANY PROFILE

Sealex Chemical Co., Ltd. is a sealant and adhesive manufacturer subsidiary 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 since 1992, focusing on construction products for metal building, pre-fabricated building, aluminum & glass, and precast concrete markets.

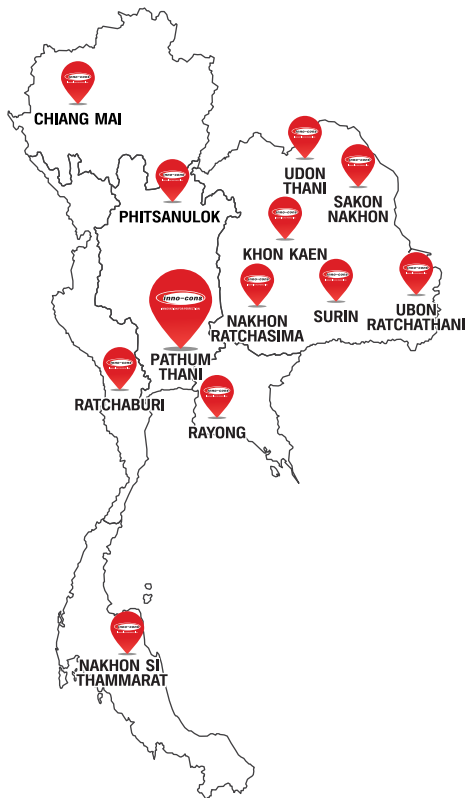
### Products offered by Sealex include :

- Hybrid Sealant offering less-stain, less dirt pick-up, anti-fungus, Low VOC, paintable sealant for perimeter, wall joints, and all weather applications.
- Hybrid Sealant Technology offers non-solvent, Low VOC adhesives for flooring, automotive and no-nail applications.
- High performance Silicone and Acrylic Sealants.



## YOUR SATISFACTION, OUR PRIORITY

- **12 Distribution Centers** Covering the entire Kingdom of Thailand
- **Sales Team** Knowledgeable and professionally trained sales team.
- **Customer Relations Team** Highly experienced team for handling all inquiries and after sales services.
- **Delivery Team** Strong logistic team to fulfill all nationwide deliveries on time.
- **Technical service** Expert technical teams ready to serve and assist all technical matters.
- **Quality Management System** QMS Standards of ISO 9001:2015 for consistently providing quality products and services to customers and regulatory requirements.
- **Export Markets** Partnered and exported to Asia Pacific countries



• Innovation of product



• Product training for customers



• Customer Care Service that our competitors and business associates speak about.



• On site Technical Service



# TECHNICAL SUBMITTAL

## Features

## Benefits

High Movement Capability $\pm 50\%$	When cured, Sx-7000 exhibits $\pm 50\%$ cyclic movement capability in extension and compression withstanding all weather conditions (ASTM C719:2005)
All Weather Durability	Cured Sx-7000 displays excellent long-term resistance to all weather that include extreme temperatures, ozone, ultraviolet radiation, rain and snow.
Excellent Unprimed Adhesion to most material	Sx-7000 has excellent adhesion to most construction material including metal sheet, galvanized steel, most painted surfaces, anodized aluminum, glass, concrete, brick, fiberglass and non-oily woods.
Permanently Flexible	Cured Sx-7000 is permanently flexible with life-expectancy of more than 10 years and will neither crack, crumble nor dry out.
Excellent Anti-Corrosion Barrier	Sx-7000 provides an excellent barrier between dissimilar metals where electrolytic corrosion can be a severe problem.
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.

## Applications

- Professional weather sealing and glazing
- Curtain walls and building facades
- Pre-engineered building
- Metal roofing and walling
- Fiberglass and polycarbonate skylight
- Aluminum to glass glazing
- Other general sealing applications

\* not applicable for structural glazing

## Compliance and Approvals

- ASTM C920, Type S, Grade NS, Class 50-tested by TUV SUD
- ASTM D412 Result (Tension for elastomeric Sealant)
- ASTM C1135 result (Tensile Adhesion Properties of Structural Sealant with aluminium substrate)

## Size of Packaging & Accessory



## Technical Specification

Uncured Sealant - Tested at at 25°C and 50% RH	
TACK-FREE TIME	20 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
EXTRUSION RATE	33.5 ml / min
Cured Sealant - After 21 days at 25°C and 50% RH	
DUROMETER, SHORE A	36 points
TENSILE STRENGTH (ASTM C1135)	1.4 Mpa
SERVICE TEMPERATURE	-50°C to +150°C
MOVEMENT CAPABILITY	$\pm 50\%$
PEEL ADHESION (ASTM C794)	84.2 N

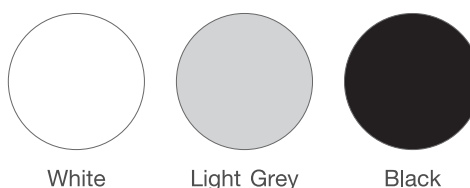
## Compliance and Approvals

Sealex Sx-7000 is not recommended for use in continuous water immersion nor below ground or other joints where excessive abrasion and physical abuse are encountered.

It should not be applied to:

- Totally closed area where sealant is not exposed to atmospheric moisture.
- Any uncured sealant apart from Sealex Sx-7000

## Standard Color



## Customize Colors Available



## Compliance and Approvals

- ASTM C920, Type S, Grade NS, Class 50 – tested by TUV SUD

### TEST RESULTS:

TEST	'Sealex Sx-7000'	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	33.5 ml/min	Type S (single component), grade NS (non-sag or gunnable sealant) shall have an extrusion rate time of not <10ml/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 > 4.8 mm 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 : 34.6 test piece 2, average : 38.6 average of test pieces : 36.6	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 50	No loss in bond	The total loss in bond and cohesion areas among the three specimens tested for each surface shall not be >9 cm <sup>2</sup> with mortar substrates
7. Effects Of Heat Ageing On Weight Loss, Cracking And Chalking, average	0.9% 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	84.2 N (19.0 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 Appendix, Figure1)	-

### TEST RESULTS:

- ASTM C1135 Result (Tensile Adhesion Properties of Structural Sealant with aluminium substrate)

TEST	Unit	'Sealex Sx-7000'
a. Tensile Strength, average	MPa	1.4
b. Tensile Strength at 25% Elongation, average	MPa	0.9
c. Tensile strength at 50% Elongation, average	MPa	1.0
d. Elongation At Break, average	%	360.4

- ASTM D412 Result (Tension for elastomeric Sealant)

TEST	Unit	'Sealex Sx-7000'
Tensile Strength	MPa	2.0
Tensile Stress at 25% Elongation	MPa	0.3
Tensile Stress at 50% Elongation	MPa	0.4
Tensile Stress at 100% Elongation	MPa	0.7
Elongation At Break	%	613

### 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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