Sealex® シーレックス

TECHNICAL SUBMITTAL

Sx-1000

High Performance Acrylic Sealant



Sealex Sx-1000 is a high performance acrylic polymer sealant formulated to provide an elastic seal to almost all substrates. Sealex Sx-1000 is designed to meet the standards of ASTM C-920 and approved for government projects.

- *Permanently Flexible*
- *Adheres to Most Surfaces*
- *Paintable*
- *Solvent Free / Odourless*
- *Isocyanate and Silicone Free*
- *Easy to Clean Up*
- *Water Based*
- *Mold Resistance*
- *Low VOC*
- *Non Sagging*

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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 King dom 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

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Features	*Benefits*
Adheres to most Surfaces and Materials	Versatility and flexibility in applications
Long Term Flexibility	Unlike most of the other brands that quickly hardens up, Sealex Sx-1000's Japanese formulation provides long term flexibility and approved by Singapore government's Housing and Development Board for all public housing and commercial projects.
Isocyanate and Solvent Free	Safe to applicators and also people occupying the property in enclosed areas.
Mold Resistance	Resistance to mold suitable for sanitary apoplication
Advanced Formulation	Capable of excellent water resistance after cure and exterior application
Paintable	Once cured can be painted with oil and non-oil based paints

Applications

- Sealing aluminium, steel, timber and PVC window and door frames to concrete and other substrates
- Sealing interior joins of build-in furniture and external joints to walls
- Seal aircon ducts
- Seal plaster and ceiling boards joins and gaps
- Seal skirting and cornices around rooms
- Sealing cracks on plasterboards, bricks, concrete before painting
- Sealing movement joints Crack filling before decorations

Technical Specification

Appearance	Extreme white single part smooth thixotropic paste
Chemical	Water based acrylic
Specific Gravity	Approximately 1.55 to 1.60
Hardness (Shore A)	20 to 30 after 7 days
Full Cure	3 to 7 days (depending on thickness, humidity & temperature)
Tack Free Time	10 to 30 min (depending on humidity & temperature)
Volume Shrinkage	10% to15%
Service Temperature	-15°C to 75°C
Elongation at Break	200% to 300%
Movement Capacity	Low to medium ±15%
Durability	Approximately up to 15 years when used as recommended
Shelf Life	Up to 18 months when stored correctly
Packaging	Cartridge 460 g.

Compliance and Approvals

- ASTM C920, Type S, Grade NS, Class, Class 12.5 – tested by TUV SUD
- Singapore Government's Housing & Development Board (HDB) Approval List

Limitation

- *Avoid applications on damp surfaces as dampness significantly extends curing time.*
- *Avoid exposing to water until after fully cure*
- *Not suitable for submerged or permanently wet areas*
- *Not suitable for abrasive or physical abuse applications*
- *Do not apply externally if it is known that it will rain within 4 hours of application*

Size of Packaging



460 g.
(Cartridge)

Compliance and Approvals

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Test	'Sealex SX-1000'	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	 40 40	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	No bond failure	The total loss in bond and cohesion areas among the three specimens tested for each surface shall not be >9 cm2 with mortar substrates
7. Effects Of Heat Ageing On Weight Loss, Cracking And Chalking, average	3.2% 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	25.6 N (5.8 lbf)	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	Acrylic-based material (refer to Figure 1)	-

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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