

# x'traseal® "SILICONE" Sealant Products



SINGAPORE  
**GREEN  
BUILDING  
PRODUCT**

**SGBC**

✓  
**VERY GOOD**

SGBP 3973 SGBP 3974



**SIRIM**

CERT. TO ASTM C920 : 2014a  
CERT. NO : PC004057

Excellent Weatherability | Superior Adhesion | Durable & Flexible







### SN-501 100% RTV Neutral Silicone

- Conform to AS/NZS 4020
- Non-Shrinkage
- Conform to ASTM C920-CLASS 25
- Excellent Adhesion
- Non-Corrosive to Metal
- Indoor & Outdoor Use

**SN-501** is one part sealant that offer excellent adhesion, weatherability and elasticity for general glazing and for sealing application.

**General glazing:** masonry, concrete, ceramics stone, glass, metals, stainless steel, aluminium, most plastics, wood, brick, zincalume, galvanized iron.

**General sealing:** containers, automobiles, rain water goods, roofing, joints in building and civil engineering.

**Diy applications:** gutter, air-conditioning, sanitary, car, boat and other marine industry uses.

**Electronics sealing:** as sealants in the electrical and electronics industry.

Colour Available: Clear, White, Black, Grey, Aluminium, Dark Brown  
Content: 300g Cartridge, 600ml Sausage  
Packaging Details: 24 Cartridges / Carton, 20 Sausages / Carton



### SN-502 All Weather Sealant - LM

- Conform to ASTM C920-CLASS 25
- Joint Movement Capability up to +/- 50 %
- Matt Finished
- 100% Weather Proof
- Indoor & Outdoor Use

**SN-502** silicone sealant is one part sealant, low modulus with high movement capability that offer excellent adhesion, weatherability and elasticity for general glazing and for sealing application.

**General glazing:** masonry, concrete, ceramics stone, glass, aluminium, most plastics, wood, brick, zincalume, galvanized iron.

**General sealing:** containers, automobiles, rain water goods, roofing, joints in building and civil engineering.

**Diy applications:** gutter, air-conditioning, sanitary, car, boat and other marine industry uses.

**electronics sealing:** as sealants in the electrical and electronics industry.

Colour Available: Matte Black, Matte Grey, Matte White, Matte Dark Grey, Matte Bronze  
Content: 300ml Cartridge, 600ml Sausage  
Packaging Details: 24 Cartridges / Carton, 20 Sausages / Carton



### SN-503 Multi-Purpose Neutral Silicone

- General Glazing
- Permanently Flexible
- Non-Corrosive to Metal
- Indoor & Outdoor Use

**SN-503** silicone sealant is a one part general and optimized neutral (oxime) curing silicone rubber. SN-503 sealant offers excellent adhesion, weatherability and elasticity for general glazing and for sealing application.

**General glazing:** masonry, concrete, ceramics stone, glass, metals, stainless steel, aluminum, most plastic, wood, brick, zincalume, galvanized iron.

**General sealing:** containers, automobiles, roofing, joints in building and civil engineering.

**Diy applications:** gutter, air-conditioning, sanitary, car, boat and other marine industry uses.

**Electronics sealing:** electrical and electronics components joint.

Colour Available: Clear, White, Black, Grey  
Content: 300ml Cartridge  
Packaging Details: 24 Cartridges / Carton



### SN-504 Industrial Grade Silicone - HM

- Low Movement Capability
- 100% Weather Proof
- Matt Finished
- Indoor & Outdoor Use

**SN-504 Industrial Grade Silicone** is one part sealant, high modulus that offer excellent adhesion and weatherability for general glazing and for sealing application.

**General glazing:** masonry, concrete, ceramics stone, glass, aluminium, most plastics, wood, brick, zincalume, galvanized iron.

**General sealing:** containers, automobiles, rain water goods, roofing, joints in building and civil engineering.

**Diy applications:** gutter, air-conditioning, sanitary, car, boat and other marine industry uses.

**Electronics sealing:** sealants in the electrical parts and electronics industry uses.

Colour Available: Matte Black, Matte Grey  
Content: 300g Cartridge, 600ml Sausage  
Packaging Details: 24 Cartridges / Carton, 20 Sausages / Carton



### SN-505 Kitchen & Bathroom Sealant

- Conform to ASTM C920-CLASS 25
- Antifungal
- 100% Water Resistant
- Non-Corrosive to Metal
- Non-Shrinkage

**SN-505** kitchen & bathroom sealant is a single component 100% rtv silicone sealant with excellent anti-fungal properties. It resists mildew and suitable for many common areas where under high humidity and temperature conditions may be encountered. It will bond to form a durable, flexible, waterproof seal on most bulding materials.

**General glazing:** masonry, concrete, ceramics stone, glass, metals, stainless steel, alluminium, most plastics, wood, brick, zincalume, galvanized iron.

**General sealing:** kitchen & bathroom fittings, sanitary, containers, automobiles, rain water goods, roofing, joints in building and civil engineering.

**Diy applications:** gutter, air-conditioning, sanitary, car, boat and other marine industry uses.

Colour Available: Clear, White  
Content: 300g Cartridge, 600ml Sausage  
Packaging Details: 24 Cartridges / Carton, 20 Sausages / Carton



### Cölosil Fungicide Sealant

- DIY Household Packing
- 100% Water Resistant
- Antifungal
- Non-Corrosive to Metal

**Cölosil Fungicide Sealant** is a single component 100% rtv silicone sealant with excellent anti-fungal properties. It resists mildew and suitable for many common areas where under high humidity and temperature conditions may be encountered. It will bond to form a durable, flexible, waterproof seal on most bulding materials.

**General glazing:** masonry, concrete, ceramics stone, glass, metals, stainless steel, aluminium, most plastics, wood, brick, zincalume, galvanized iron.

**General sealing:** kitchen & bathroom fittings, sanitary, containers, automobiles, rain water goods, roofing, joints in building and civil engineering.

**Diy applications:** gutter, air-conditioning, sanitary, car, boat and other marine industry uses.

Colour Available: White  
Content: 85g Blister Pack  
Packaging Details: 12 Pcs / Inner Carton, 144 Pcs / Outer Carton



### SA-101 100% RTV Acetic Silicone

- Conform to ASTM C920-CLASS 25
- Permanently Flexible
- Skin Forming in 5 Mins
- Non-Shrinkage
- Indoor & Outdoor Use

**SA-101** silicone sealant is one part sealant that offer excellent adhesion, weatherability and elasticity for general glazing and for sealing application.

**General glazing:** glass, plastic, channel or stop.

**Curtainwall sealing:** glass, metal, granite and plastic.

**General sealing:** sheet metal, skylights, ventilators, air-conditioning.

Colour Available: Clear, White, Black, Grey, Aluminium, Bronze  
Content: 300g Cartridge, 600ml Sausage  
Packaging Details: 24 Cartridges / Carton, 20 Sausages / Carton



### SA-103 Multi-Purpose Acetic Silicone

- General Sealing
- Permanently Flexible
- Non-Sagging
- Indoor Use

**SA-103 Multi-Purpose Acetic Silicone** is one part sealant that offer excellent adhesion, weatherability and elasticity for general glazing and for sealing application.

**General glazing:** glass, plastic, channel or stop.

**Curtainwall sealing:** glass, steel, granite and plastic.

**General sealing:** sheet metal, skylights, ventilators, air-conditioning.

Colour Available: Clear, White, Black, Grey  
Content: 300g Cartridge  
Packaging Details: 24 Cartridges / Carton



### SA-106 Aquarium Grade Acetic Silicone

- Skin Forming in 3 Mins
- Fast Curing
- Excellent Adhesion
- Aquarium Maker

**SA-106 Aquarium Grade Acetic Silicone** is one part sealant that offer excellent adhesion, weatherability and elasticity for general glazing and for sealing application.

**General glazing:** glass, plastic, channel or stop.

**Curtainwall sealing:** glass, metal, granite and plastic.

**General sealing:** sheet metal, skylights, ventilators, air-conditioning.

**Glass sealing and adhesion for aquarium.**

Colour Available: Clear  
Content: 300g Cartridge, 600ml Sausage  
Packaging Details: 24 Cartridges / Carton, 20 Sausages / Carton



### SA-107 All Purpose Acetic Silicone

- General Sealing
- Permanently Flexible
- Non-Sagging
- Indoor Use

**SA-107 All Purpose Acetic Silicone** is one part sealant that offer excellent adhesion, weatherability and elasticity for general glazing and for sealing application.

**General glazing:** glass, plastic, channel or stop.

**Curtainwall sealing:** glass, steel, granite and plastic.

**General sealing:** sheet metal, skylights, ventilators, air-conditioning.

Colour Available: Clear, White, Black  
Content: 280ml Cartridge  
Packaging Details: 30 Cartridges / Carton



### Clear Sealant

- DIY Household Packing
- Fast Curing
- Waterproof Seal
- Automotive Industry / Aquarium Maker

**Clear Sealant** is a 100% silicone sealant that offers excellent adhesion, waterproof seal, weatherability and elasticity. Most suitable for aluminium, metal, glass, stainless steel, tiles, rubber and most plastics. It also developed for hot running car's engines. It cures to make gaskets of any shape or size immediately. Its pressure resistance of up to 5000 psi makes it ideal as a gasket maker that resists cracking, shrinking and migrating caused by thermal cycling. Ideal for timing covers, valve covers, oil pans, intake manifolds, exhaust manifolds, water pumps and etc.

**General glazing:** glass, plastic, channel or stop.  
**Curtainwall sealing:** glass, metal, granite and plastic.  
**General sealing:** sheet metal, skylights, ventilators, air-conditioning.

Colour Available: Clear  
Content: 85g Blister Pack  
Packaging Details: 12 Pcs / Inner Carton, 144 Pcs / Outer Carton

Distributed by:



# SN-505

## KITCHEN & BATHROOM SEALANT

**Description:**

**x'traseal®** SN-505 kitchen & bathroom sealant is a single component 100% RTV silicone sealant with excellent anti-fungal properties. It resists mildew and suitable for many common areas where under high humidity and temperature conditions may be encountered. It will bond to form a durable, flexible, waterproof seal on most building materials.

**Features:**

- ◆ Mold & mildew resistant (fungicide)
- ◆ Neutral, oxime curing system
- ◆ Non corrosive to metals
- ◆ Non corrosive to alkaline substrates
- ◆ Non corrosive to automobiles
- ◆ Outstanding durability
- ◆ One part no mixing
- ◆ Permanently flexible
- ◆ Excellent gunnability (-20°C to 50°C)
- ◆ Waterproof & weatherproof seals
- ◆ Low shrinkage
- ◆ No sagging
- ◆ Primerless adhesion to most materials

**Uses:**

- ◆ General glazing: masonry, concrete, ceramics stone, glass, metals, stainless steel, aluminum, most plastics, wood, brick, zinc, galvanized iron.
- ◆ General sealing: kitchen & bathroom fittings, sanitary, cold storage, clean room, containers, automobiles, rain water goods, roofing, joints in building and civil engineering.
- ◆ DIY applications: gutter, air-conditioning, sanitary, car, boat and other marine industry uses.

**We recommend preliminary compatibility tests prior to application to achieve desirable results**

**Not recommended for:**

Not recommended for aquarium.  
SN-505 kitchen & bathroom is a neutral (oxime) curing fungicide silicone. As with other silicone sealants, it is  
Not for: traffic areas or areas subject to abrasion.  
Not for: paints coating.  
Not for: poly-carbonate or polyacrylate if they under tension.  
Not for: copper materials.

**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 of kitchen & bathroom sealant bead should be computed on the basis of a maximum  $\pm 30\%$  compression and extension capability minimum bead size should not be less than 3mm to accommodate movement. Design joint depth of which ratio width becomes 0.5 to 1.

Suitable joint depth vs width:

6mm x 6mm  
8mm x 12mm  
10mm x 20mm

- \* Joint size minimum 3mm x 3mm.
- \* Joint size maximum 30mm.

**Application:**

- ◆ Surface must be clean and dry.
- ◆ Mask smooth surface to simplify clean up.
- ◆ Use approved back-up material in joint.
- ◆ Cut nozzle to desired size.
- ◆ Insert cartridge into caulking gun.
- ◆ Push sealant ahead for uniform bead.
- ◆ Tool within 5 minutes.
- ◆ Clean off excess sealant with M.E.K. Or toluene.





## SN-505

### KITCHEN & BATHROOM SEALANT



#### Curing time:

SN-505 kitchen & bathroom sealant will tack free in approximately 15 minutes and will cure to a depth of 10mm in 7 days. Longer curing time may be necessary in dry and low humidity area.

#### Specification:

Curing system	Neutral (oxime)
Appearance	Non-sagging paste
Odour	Low oxime smell
Specific gravity	1.01 ± 0.03
Shore a hardness	30 approx.
Elongation	400%
Tensile strength	1.20mpa approx.
Tack free time	Within 15 minutes
Application temp.	-20°C to 50°C
Service temp.	-50°C to 150°C
Shelf life	12 months

#### Storage:

Material should be stored in a dry and cool place between +5°C to +30°C.

#### Caution:

Read and understand material safety data sheet of this product before handling or using.

*This information is provided in good faith and is believed accurate based on a review of current composition and information supplied by vendors. No warranty is expressed or implied. Liability is expressly disclaimed.*





**Test Report No. 7191066517-MEC13/02-ED (221402108)**  
**dated 3 Jan 2014**



PSB Singapore

**Note:** This report is issued subject to the Testing and Certification Regulations of the TÜV SÜD Group and the General Terms and Conditions of Business of TÜV SÜD PSB Pte Ltd. In addition, this report is governed by the terms set out within this report.

**Choose certainty.  
Add value.**

**SUBJECT:**

Testing of sealant

**TESTED FOR:**

Mohm Chemical Sdn Bhd  
No.32, Jalan Temenggong  
Off Jalan Tampoi  
81100 Johore Bahru  
Johore  
Malaysia

Attn: Mr K S Tee

**SAMPLE DESCRIPTION:**

The following items were received as shown:

Sample	Size	Quantity	Date received
'Material Code : 505 x'traseal SN-505 100% RTV Neutral Silicone Sealant-Kitchen & Bathroom/x'traseal KB-51 Kitchen & Bathroom Sealant'	300 g/cartridge	10 cartridges 2 cartridges	29 Jul 2013 15 Nov 2013
Primer	100 g	1 tin	29 Jul 2013

**TEST METHODS:**

Adopted ASTM C920 : 2008 Standard Specification For Elastomeric Joint Sealants

Staining And Colour Change

- ASTM C510 : 2005 Standard Test Method For Staining And Colour Change Of Single Or Multi-Component Joint Sealants

Test cycle : 8 hours UV exposure at 55°C and 4 hours condensation at 45°C  
Exposure duration : 100 hours  
No. of determination : 1 for staining test, 1 for colour change test, 1 as control



Laboratory:  
TÜV SÜD PSB Pte. Ltd.  
Testing Services  
No.1 Science Park Drive  
Singapore 118221

Phone : +65-6885 1333  
Fax : +65-6776 8670  
E-mail: testing@tuv-sud-psb.sg  
www.tuv-sud-psb.sg  
Co. Reg : 199002667R

Regional Head Office:  
TÜV SÜD Asia Pacific Pte. Ltd.  
3 Science Park Drive, #04-01/05  
The Franklin, Singapore 118223  
**TUV®**



**Test Report No. 7191066517-MEC13/02-ED (221402108)**  
**dated 3 Jan 2014**



PSB Singapore

Extrudability

2. ASTM C1183 : 2008 Standard Test Method For Extrusion Rate Of Elastomeric Sealants  
(Cross Reference: ASTM D1475 : 2008 Standard Test Method For Density Of Liquid Coatings, Inks And Related Products)

Apparatus : Pycnometer and caulking gun  
Test pressure : 40 psi  
No. of determination : 1

Flow Properties

3. ASTM C639 : 2007 Standard Test Method For Rheological (Flow) Properties Of Elastomeric Sealants

Method : Test method for 'Type II' sealant  
Test conditions : a) 4.4°C in environmental chamber for 4 hours  
b) 50°C in oven for 4 hours  
No. of determinations : 2 for vertical and horizontal displacements

Hardness

4. ASTM C661 : 2006 Standard Test Method For Indentation Hardness Of Elastomeric-Type Sealants By Means Of A Durometer

Test Conditions:

a) 23°C and 50% relative humidity for 7 days  
b) 38°C and 95% relative humidity for 7 days  
c) 23°C and 50% relative humidity for 7 days  
No. of determinations : 2, 3 points per test piece

Tack-Free Time

5. ASTM C679 : 2003 Standard Test Method For Tack-Free Time Of Elastomeric Sealants

No. of determinations : 2

Cyclic Adhesion & Cohesion

6. ASTM C719 : 2005 Standard Test Method For Adhesion And Cohesion Of Elastomeric Joint Sealants Under Cyclic Movement (Hockman Cycle)

Test Conditions:

a) 23°C and 50% relative humidity for 7 days  
b) 38°C and 95% relative humidity for 7 days  
c) 23°C and 50% relative humidity for 7 days  
d) Immersion in distilled water at 23°C for 7 days  
e) Drying in oven at 70°C for 7 days

Ed

E



**Test Report No. 7191066517-MEC13/02-ED (221402108)**  
**dated 3 Jan 2014**



PSB Singapore

Cyclic Test Conditions:

Stage A-10 cycles of joint movements:

- a) The joint width was compressed from 12.7mm to 9.5mm at 3.2 mm/h
- b) It was extended from 9.5mm to 15.9mm at 3.2 mm/h
- c) It was compressed again from 15.9mm to 12.7mm at 3.2 mm/h

Stage B-10 cycles of joint movements:

- a) The joint width was compressed to 9.5mm and conditioned at 70°C for 16 to 20 hours
- b) After ageing, the test specimens were cooled to 23°C for 2 to 3 hours
- c) The joint width was extended to 15.9mm at -26°C and 3.2 mm/h
- d) The specimens were removed and allowed to condition to room temperature

No. of determinations : 3 for Class 25

Effects Of Heat Ageing

7. ASTM C1246 : 2006 Standard Test Method For Effects Of Heat Ageing On Weight Loss, Cracking, And Chalking Of Elastomeric Sealants After Cure

Test Conditions:

- a) 23°C and 50% relative humidity for 28 days
- b) 70°C for 21 days

No. of determinations : 3, 1 as control

Effects Of Accelerated Weathering

8. Adopted ASTM C793 : 2005 Standard Test Method For Effects Of Accelerated Weathering On Elastomeric Joint Sealants

Test cycle : 8 hours UV exposure at 55°C and 4 hours condensation at 45°C  
Lamp designation : Fluorescent UVA 340 mm  
Exposure duration : 250 hours  
No. of determinations : 3 (1 as control)  
Bend test  
Apparatus : Steel mandrel  
Test condition : -26°C for 24 hours  
No. of determinations : 3

Adhesion-In-Peel

9. ASTM C794 : 2006 Standard Test Method For Adhesion-In-Peel Of Elastomeric Joint Sealants

Test Conditions:

- a) 23°C and 50% relative humidity for 7 days
- b) 38°C and 95% relative humidity for 7 days
- c) 23°C and 50% relative humidity for 7 days
- d) Immersion in water at 23°C for 7 days

Crosshead speed : 50.8 mm/min  
No. of determinations : 4

*Ed* *E*



**Test Report No. 7191066517-MEC13/02-ED (221402108)**  
**dated 3 Jan 2014**



PSB Singapore

Material Identification/Verification

10. Material Identification/Verification By Fourier Transform Infra-Red Spectrometric Analysis (FTIR)

Stain Resistance

11. Adopted ANSI Z124.3 : 1995 American National Standards For Plastic Lavatories  
 Section 5.2 : Stain Resistance Test

Test condition : Close spot for 16 hours  
 Reagent : a. Household bleach (concentrated sodium hypochlorite)  
 b. Urine/urea (6% uric acid)  
 No. of determination : 1 per reagent

Fungal Resistance

12. Adopted ISO 846 : 1997 Plastics - Evaluation Of The Action Of Micro-Organisms  
 Section 8.2.2 : Determination Of Fungistatic Effect

Method : B  
 Test micro-organisms : Aspergillus niger (ATCC 6275)  
 Penicillium pinophilum (ATCC 36839)  
 Paecilomyces variotti (ATCC 18502)  
 Chaetomium globosum (ATCC 6205)  
 Gliocladium virens (ATCC 9645)  
 Procedure : Five agar plates (#1, #2, #3, #4, #5)  
 containing the test samples were inoculated with mixed fungal spore  
 suspension of the test micro-organisms  
 Spore viability checks were prepared using two petri dishes  
 containing the complete agar medium inoculated with the mixed fungal  
 spore suspension  
 Incubation period : 30°C and 95% relative humidity for 28 days

Intensity of growth	Evaluation
0	No growth apparent under the microscope
1	No growth visible to the naked eye, but clearly visible under the microscope
2	Growth visible to the naked eye, covering up to 25% of the test surface
3	Growth visible to the naked eye, covering up to 50% of the test surface
4	Considerable growth, covering more than 50% of the test surface
5	Heavy growth, covering the entire test surface

Assessment of Test Specimen

Intensity of growth	Assessment of test material
0	Strong fungistatic effect
0 + inhibition zone round specimen	Strong fungistatic effect, extending into the zone surrounding the test specimen by diffusion
1	The sample is not completely fungistatic
2 to 5	Effectiveness decreasing down to complete absence of a fungistatic effect

*Ed* *E*



**Test Report No. 7191066517-MEC13/02-ED (221402108)**  
dated 3 Jan 2014



PSB Singapore

CONDITIONING:

Unless otherwise specified, all test specimens were tested at  $23 \pm 2^\circ\text{C}$  and  $65 \pm 5\%$  relative humidity.

TEST RESULTS:

Test	'Material Code : 505 x'traseal SN-505 100% RTV Neutral Silicone Sealant-Kitchen & Bathroom/x'traseal KB-51 Kitchen & Bathroom 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 <sup>2</sup> with mortar substrates
7. Effects Of Heat Ageing On Weight Loss, Cracking And Chalking, average	1.2% 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	53.4 N (12.0 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)	-

Ed



**Test Report No. 7191066517-MEC13/02-ED (221402108)**  
dated 3 Jan 2014



PSB Singapore

TEST RESULTS:

Test	'Material Code : 505 x'traseal SN-505 100% RTV Neutral Silicone Sealant-Kitchen & Bathroom/x'traseal KB-51 Kitchen & Bathroom Sealant'	HDB Specification : Sanitary Sealant (Acceptance Criteria)
11. Chemical Resistance a. Household bleach b. Urine/urea (6% uric acid)	No effect No effect	Surface shall be unaffected after 16 hours of spot covered test
12. Fungal Resistance Batch I, Inoculated test samples #1 #2 #3 #4 #5	Intensity of growth on test samples 0 (None)+inhibition zone around test sample 0 (None)+inhibition zone around test sample 0 (None)+inhibition zone around test sample 0 (None)+inhibition zone around test sample 0 (None)+inhibition zone around test sample  has strong fungistatic effect, extending into the zone surrounding the test specimens by diffusion	No growth (Intensity of growth = 0)
Batch O, Control samples #1 #2 #3 #4 #5	0 (None) 0 (None) 0 (None) 0 (None) 0 (None)	
Batch S, Sterile samples #1 #2 #3 #4 #5	0 (None) 0 (None) 0 (None) 0 (None) 0 (None)	
Spore Viability Check #1 #2	growth growth	

REMARKS:

- The test conditions for staining and colour change tests and effects of accelerated weathering test were adopted from ASTM G154 : 2006 Standard Practice For Operating Fluorescent Light Apparatus For UV Exposure Of Non-Metallic Materials.
- As specified by the client, the primer was applied onto the mortar substrates and allowed to dry till tack-free before application of the sealant.
- The class movement 25 for cyclic adhesion/cohesion test was specified by the client.


Fungal Resistance ISO 846

Batch O : Control samples, stored under standard temperature and moisture conditions without inoculation.

Batch I : Test samples inoculated with micro-organisms and incubated.

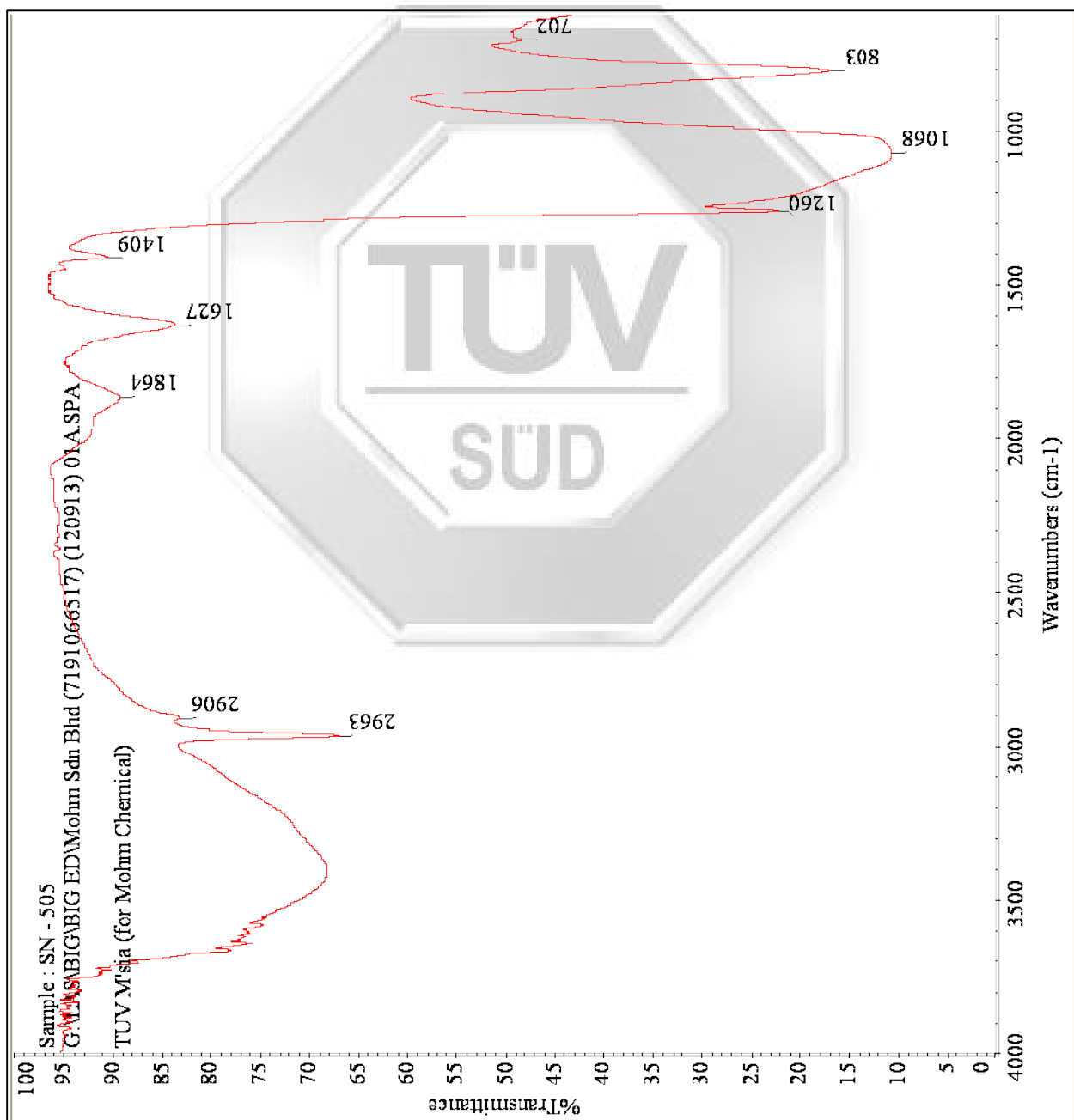
Batch S : Sterile samples, stored under standard temperature and moisture conditions without inoculation.



  
Eddie Suwand  
Senior Associate Engineer

  
Eng Aik How  
Engineer  
Building  
Mechanical Centre

Figure 1 : IR spectrum of 'Material Code : 505 x'traseal SN-505 100% RTV Neutral Silicone Sealant-Kitchen & Bathroom/  
x'traseal KB-51 Kitchen & Bathroom Sealant'





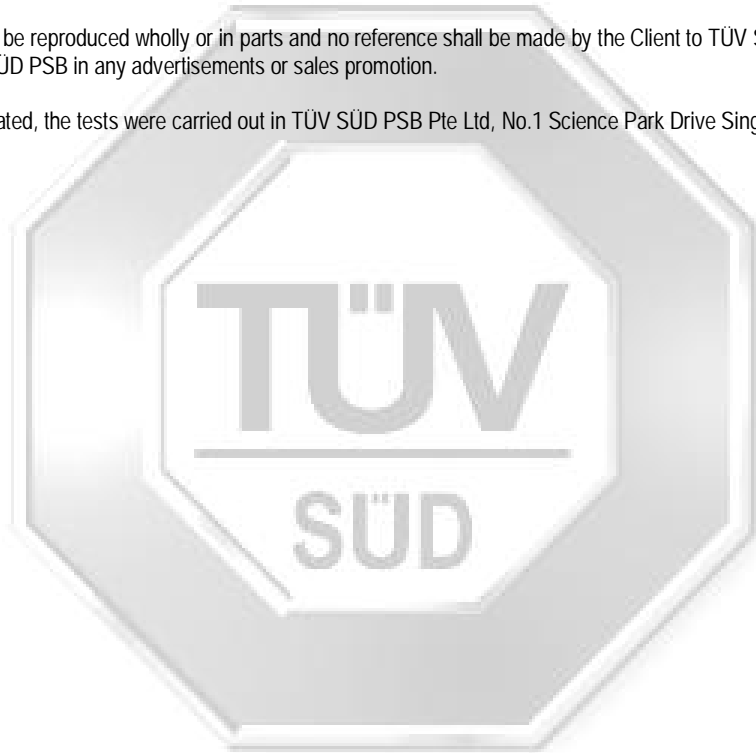
**Test Report No. 7191066517-MEC13/02-ED (221402108)**  
**dated 3 Jan 2014**



Please note that this Report is issued under the following terms :

1. This report applies to the sample of the specific product/equipment given at the time of its testing/calibration. The results are not used to indicate or imply that they are applicable to other similar items. In addition, such results must not be used to indicate or imply that TÜV SÜD PSB approves, recommends or endorses the manufacturer, supplier or user of such product/equipment, or that TÜV SÜD PSB in any way "guarantees" the later performance of the product/equipment. Unless otherwise stated in this report, no tests were conducted to determine long term effects of using the specific product/equipment.
2. The sample/s mentioned in this report is/are submitted/supplied/manufactured by the Client. TÜV SÜD PSB therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture, consignment or any information supplied.
3. Nothing in this report shall be interpreted to mean that TÜV SÜD PSB has verified or ascertained any endorsement or marks from any other testing authority or bodies that may be found on that sample.
4. This report shall not be reproduced wholly or in parts and no reference shall be made by the Client to TÜV SÜD PSB or to the report or results furnished by TÜV SÜD PSB in any advertisements or sales promotion.
5. Unless otherwise stated, the tests were carried out in TÜV SÜD PSB Pte Ltd, No.1 Science Park Drive Singapore 118221.

July 2011





# **X'traseal Sealant & Adhesive**

## **Singapore Job Reference**

<b>2025</b>	<b>Novartis @ 8 Tuas bay Lane, Tuas, Singapore</b>
<b>2024</b>	<b>Republic Polytechnic, Woodland, Singapore</b>
<b>2024</b>	<b>SIT 1@Punggol, Singapore</b>
<b>2023</b>	<b>SIT 2@Punggol, Singapore</b>
<b>2023</b>	<b>Woodleigh Residence@Woodleigh, Singapore</b>
<b>2023</b>	<b>Pan Pacific Orchard, Orchard, Singapore</b>
<b>2023</b>	<b>Alexandra Hospital - Improvement Works at Alexandra Rd, Singapore</b>
<b>2022</b>	<b>Central Grove Condo @ Geylang East, Geylang East, Singapore</b>
<b>2022</b>	<b>Exyte Global Foundries @ 60 Woodlands Ind Park D, Woodland, Singapore</b>
<b>2022</b>	<b>Geras Data Centre, Harbourfront, Singapore</b>
<b>2022</b>	<b>National Cancer Center NCC, Outram Park, Singapore</b>
<b>2022</b>	<b>Mount Elizabeth Novena Hospital Proton Therapy Centre, Novena, Singapore</b>
<b>2022</b>	<b>Shimano New Factory @ Bulim Drive, Bulim Ave, Singapore</b>
<b>2021</b>	<b>Seaside Residences, East Coast, Singapore</b>
<b>2021</b>	<b>LYF @ One North, One North, Singapore</b>
<b>2021</b>	<b>Equinix / Data Center, Sunview Dr, Singapore</b>
<b>2020</b>	<b>Orchard Central, Orchard, Singapore</b>
<b>2020</b>	<b>Tampines Nursing Home, Tampines, Singapore</b>
<b>2019</b>	<b>Draycott Park, Draycott Park, Singapore</b>
<b>2019</b>	<b>Sumitomo Warehouse Extension @ 8 Tuas Ave 5, Tuas, Singapore</b>
<b>2018</b>	<b>Connexion @ Race Course Rd, Farrer Park, Singapore</b>
<b>2018</b>	<b>Seletar Airport, Seletar, Singapore</b>
<b>2017</b>	<b>Jurong West N1C31, Jurong West, Singapore</b>
<b>2017</b>	<b>MRT C929 @ Kaki Bukit Ave 1, Kaki Bukit, Singapore</b>
<b>2017</b>	<b>Woodlands Nursing Home, Woodlands Rise, Singapore</b>
<b>2017</b>	<b>The Trilingq, Clementi, Singapore</b>
<b>2017</b>	<b>UIC @ Shenton Way, Shenton Way, Singapore</b>
<b>2017</b>	<b>Bencoolen MRT, Bencoolen, Singapore</b>
<b>2016</b>	<b>Sennett Residence, Potong Pasir, Singapore</b>
<b>2016</b>	<b>21 Hillview Terrace, Chua Chu Kang, Singapore</b>
<b>2016</b>	<b>Baxter Healthcare SA, Woodlands, Woodlands, Singapore</b>
<b>2015</b>	<b>Sky Habitat @ Bishan, Bishan, Singapore</b>
<b>2015</b>	<b>Equinix Data Center SG3, Ajer Raja Crescent, Singapore</b>
<b>2015</b>	<b>National Art Gallery, Singapore</b>
<b>2015</b>	<b>Conservation of Capitol Theatre, Stamford Rd, Singapore</b>
<b>2015</b>	<b>YCH (Yishun Community Hosiptal, Yishun, Singapore</b>
<b>2015</b>	<b>Lighthouse Evangelism @ Woodlands Circle, Woodlands, Singapore</b>



# **X'traseal Sealant & Adhesive**

## **Singapore Job Reference**



<b>2014</b>	<b>St Anthony's Canossian Primary School, Bedok North, Singapore</b>
<b>2014</b>	<b>Parc Vera, Hougang, Singapore</b>
<b>2014</b>	<b>LINK @ AMK, Ang Mo Kio, Singapore</b>
<b>2014</b>	<b>SIM Global Education, Clementi, Singapore</b>
<b>2014</b>	<b>GEMS International School, Yishun, Singapore</b>
<b>2014</b>	<b>A Treasure Trove, Punggol, Singapore</b>
<b>2014</b>	<b>Singapore Flyer, Raffles, Singapore</b>
<b>2013</b>	<b>SHINNYO-EN, Eunos, Singapore</b>
<b>2013</b>	<b>NUS Create, University Town, Singapore</b>
<b>2013</b>	<b>7 Ardmore Park, Tanglin, Singapore</b>
<b>2013</b>	<b>Kerry Logistics Center, Tampines, Singapore</b>
<b>2013</b>	<b>Tye Soon Limited, Toh Guan Rd, Singapore</b>
<b>2013</b>	<b>Westgate, Jurong East, Singapore</b>
<b>2013</b>	<b>Waterview Condo, Tampines, Singapore</b>
<b>2013</b>	<b>Yamazaki Mazak Singapore Pte Ltd@Joo Koon, Singapore</b>
<b>2013</b>	<b>Wyeth Nutritionals (Singapore) Pte Ltd@Changi, Singapore</b>
<b>2012</b>	<b>Tiong Seng Hub@Tuas, Singapore</b>
<b>2012</b>	<b>Stamford American Int'l School (SAIS)@Woodleigh, Singapore</b>
<b>2012</b>	<b>Urban Suites@Hullet Rd, Singapore</b>
<b>2012</b>	<b>Changi Expo Hall 3, Changi, Singapore</b>



