



廣州市白雲化工實業有限公司  
GUANGZHOU BAIYUN CHEMICAL INDUSTRY CO.,LTD.  
**致力打造全球密封胶領袖品牌**



**BAI YUN**

# ***The Design , Selection and Application of Building Sealants***



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# BAI YUN Introduction

## 1. About BAI YUN

### 2. History & Honor

### 3. R&D

### 4. 50 years Durability Testing

### 5. Factory Quality Control System

### 6. BAI YUN Service

### 7. BAI YUN Social Responsibility

### 8. Classic projects





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The factory bird 's-eye view

Area: 40, 000 m<sup>2</sup>

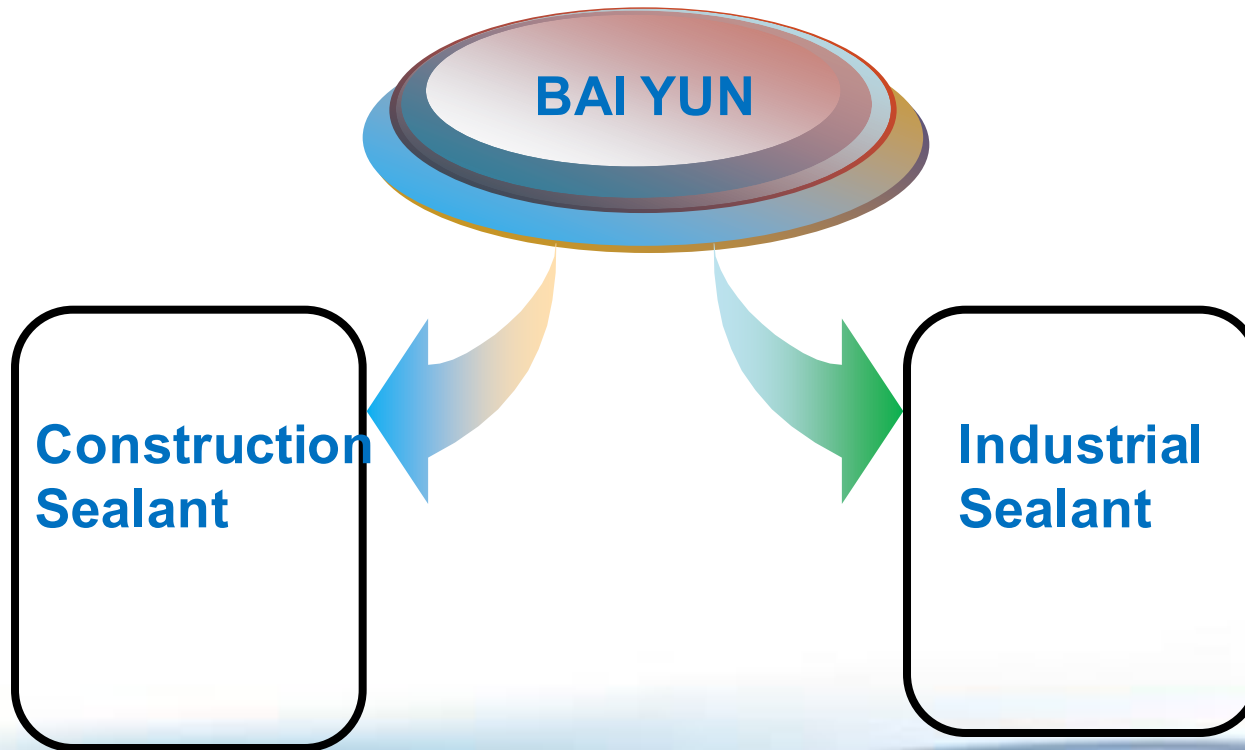
Capacity: 120, 000 tons



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# 1.About BAI YUN

❖ Set up in 1985, Mainly focus on silicone sealant products.



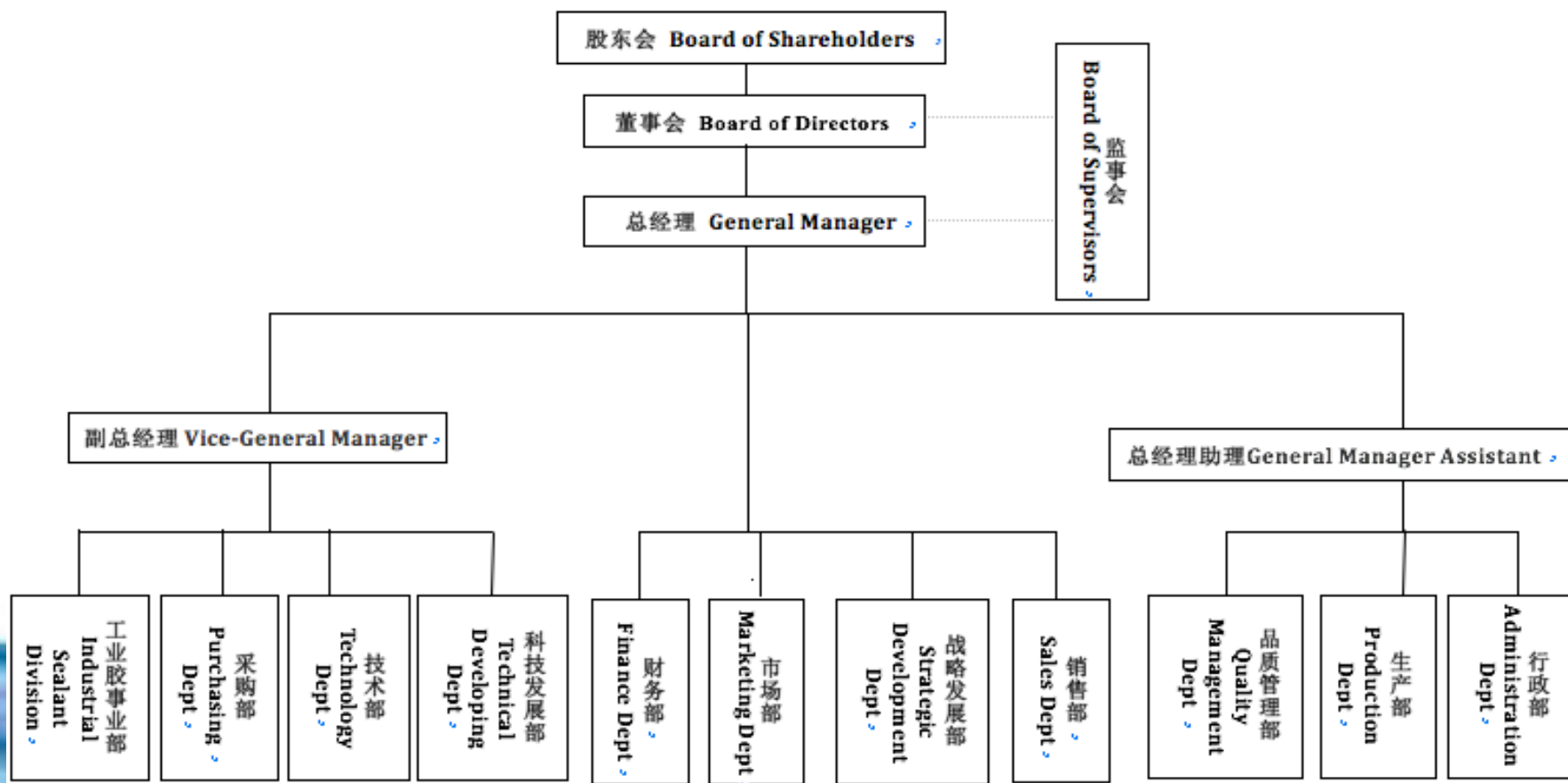


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组织架构 (2018)

## Organizational Structure





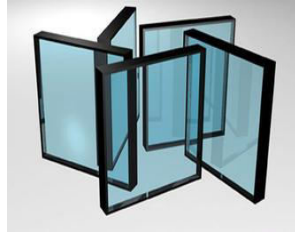
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# Products Series

## Silicone Sealant Solution For:



**Curtain  
wall**



**Insulating  
glass**



**Doors and  
windows**



**Precast  
Sealant**



**Special  
Applications**

# Industrial sealant Solutions for:



**Power**



**Photovoltaic**



**Appliance**



**Lighting**



**Railway**

.....





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## 2.History & Honor

- 1985    BAI YUN was set up in Guangzhou.**
- 1997    BAI YUN in charge of writing the first China National Standard of silicone structural sealant. (GB16776-1997)**
- 1999    It passed the ISO9001 Quality System Certification.**
- 2002    It designed the China's first world class automatic continuous silicone sealant production line.**
- 2003    It was the only enterprise in the sealant industry to win "Chinese Science and Technology Award";**



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## 2.History & Honor

- 2003** Post-doctoral research station was authorized to be set up in BAI YUN
- 2004** BAI YUN developed Super performance Structural sealant which the Tensile strength exceed **1.5Mpa**, this broke the monopoly of Foreign Competitors.
- 2008** “BAI YUN” was awarded “International science and technology cooperation base” authorized by China national ministry of science and technology.
- 2008** “BAI YUN” became the “Top 100 private enterprise” in Guangdong province
- 2015** BAI YUN developed the green, intelligent, fully automatic production line which lead the production development in the world
- 2017** BAI YUN ranked the first on the public list for strategic supplier of good faith in China’s real estate industrial chain.



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## 2.History & Honor

- 2017 BAI YUN was rated as one of the “top 100 enterprises of the manufacturing industry of Guangdong”, “one of the top 100 brands of Guangzhou”, “the most responsible enterprise in Guangzhou”, and the best employer firm in Guangdong”.**
- 2017 BAI YUN was chosen in the subject Connect with the World for exhibition as brand enterprise for the Fortune global forum of Guangzhou.**
- 2018 BAI YUN was rated as “one of the top ten first-selected brands for construction adhesive” and was ranked the first place.**
- 2018 BAI YUN was rated as the first-selected supplier among the top 500 of China’s real estate development enterprises (sealant)**





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# Patents

**From 1985 to 2018, BAI YUN involved in the drafting and revision of 126 industrial and national standards on sealant and structural adhesive and obtained over 260+ patents.**

**BAIYUN participated in the formulation and revision of 102 standards, including:**

**GB 16776 Structural Silicone Sealants for Building**

**GB/T 14683 Silicone Sealant for Building**

**JGJ 102 Technical code for glass curtain wall engineering**

**ISO 11618、ISO 19861、ISO 19862、ISO 19863**

**.....**



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## 3.R&D Power

### BAI YUN has 5 teams:

- A. Construction Technical department
- B. Industrial Sealant Technical Team
- C. Lab Center
- D. Equipment Research Department
- E. Technical Developing Department

**SS602S Structural Sealant For Ceramic**



**SS602T Silicone Travertine Sealant**



**SS821 Clear Structural Sealant**





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# CNAS Lab

## CNAS CERTIFICATE

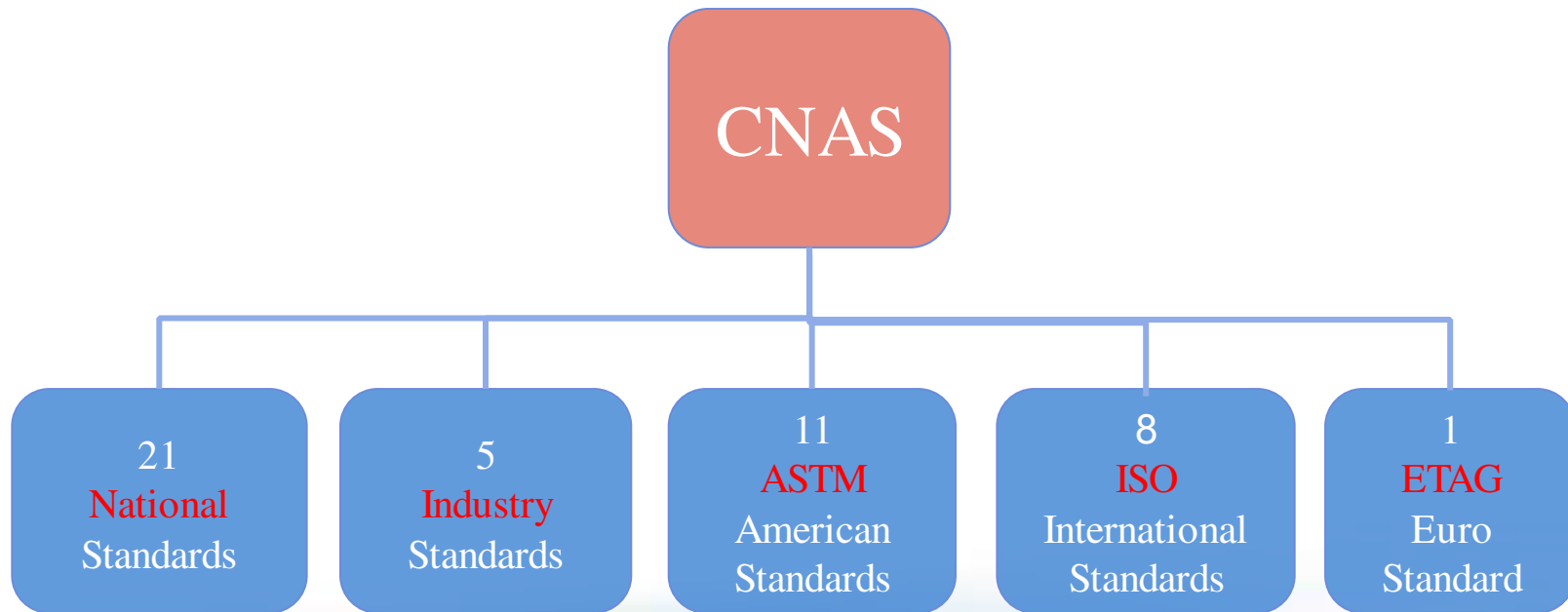
——Lab Ability

 
<b>China National Accreditation Service for Conformity Assessment</b>
<b>LABORATORY ACCREDITATION CERTIFICATE</b>
(Registration No. CNAS L7258 )
Testing Center of <b>Guangzhou Baiyun Chemical Industry Co., Ltd.</b> <u>No.1, Yun'an Road, Guangzhou Science &amp; Technology Park for Private Enterprises,</u> <u>Baiyun District, Guangzhou, Guangdong, China</u> <i>is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories(CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence of testing.</i> <i>The scope of accreditation is detailed in the attached appendices bearing the same registration number as above. The appendices form an integral part of this certificate.</i>
Date of Issue: 2014-11-17 Date of Expiry: 2017-11-16 Date of Initial Accreditation: 2014-11-17 Date of Update: 2014-11-17

Signed on behalf of China National Accreditation Service for Conformity Assessment
<small>China National Accreditation Service for Conformity Assessment (CNAS) is authorized by Certification and Accreditation Administration of the People's Republic of China (CNA) to operate the national accreditation schemes for conformity assessment. CNAS is the signatory to International Laboratory Accreditation Cooperation Multilateral Recognition Arrangement (ILAC MRA) and Asia Pacific Laboratory Accreditation Cooperation Multilateral Recognition Arrangement (APLAC MRA).</small>
No.CNAS AL 2 0011431



- ❑ The testing results are organized by the members of IAF and ILAC.
- ❑ BAI YUN is the only silicone sealant manufacturer having CNAS approved laboratory which test capacity can cover the GB,ISO,ASTM and ETAG standard in China.





## Comparison of Tensile Strength under Different Standards

Test Items		BAI YUN Company Standard	China Standard	ASTM C1184-2005
Tensile Strength Mpa	Standard Status	$\geq 1.2$	$\geq 0.60$	$\geq 0.345$
	90° C	$\geq 0.9$	$\geq 0.45$	$\geq 0.345$ (88° C)
	-30° C	$\geq 0.9$	$\geq 0.45$	$\geq 0.345$ (-29° C)
	After Soaking	$\geq 0.9$	$\geq 0.45$	$\geq 0.345$
	After Soaking-UV	$\geq 0.9$ (5000h)	$\geq 0.45$ (300h)	$\geq 0.345$ (5000h)
	Adhesion Failure,%	$\leq 5$	$\leq 5$	/
	Elongation at Break,%	$\geq 150\%$	$\geq 100\%$	/

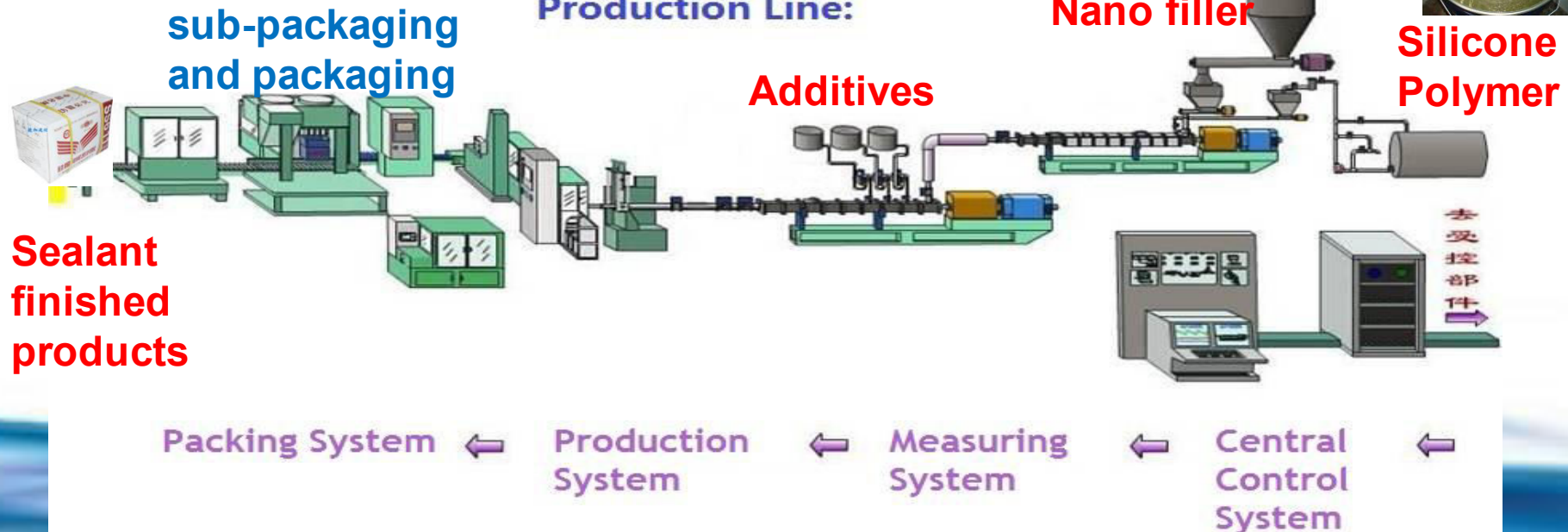
**In 2002, BAIYUN built the First China's Fully Automatic and Continuous Production Line. The computer control of the production line greatly improved the production quality and efficiency.**

**Contribute the best products to human beings!**

----BAI YUN

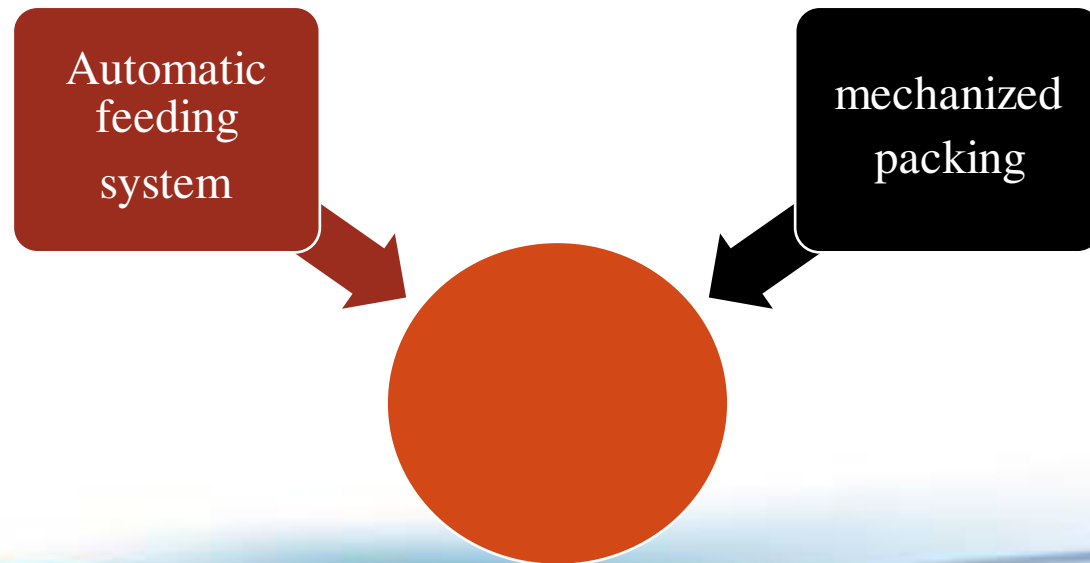


**Full Automatic Continuous  
Production Line:**

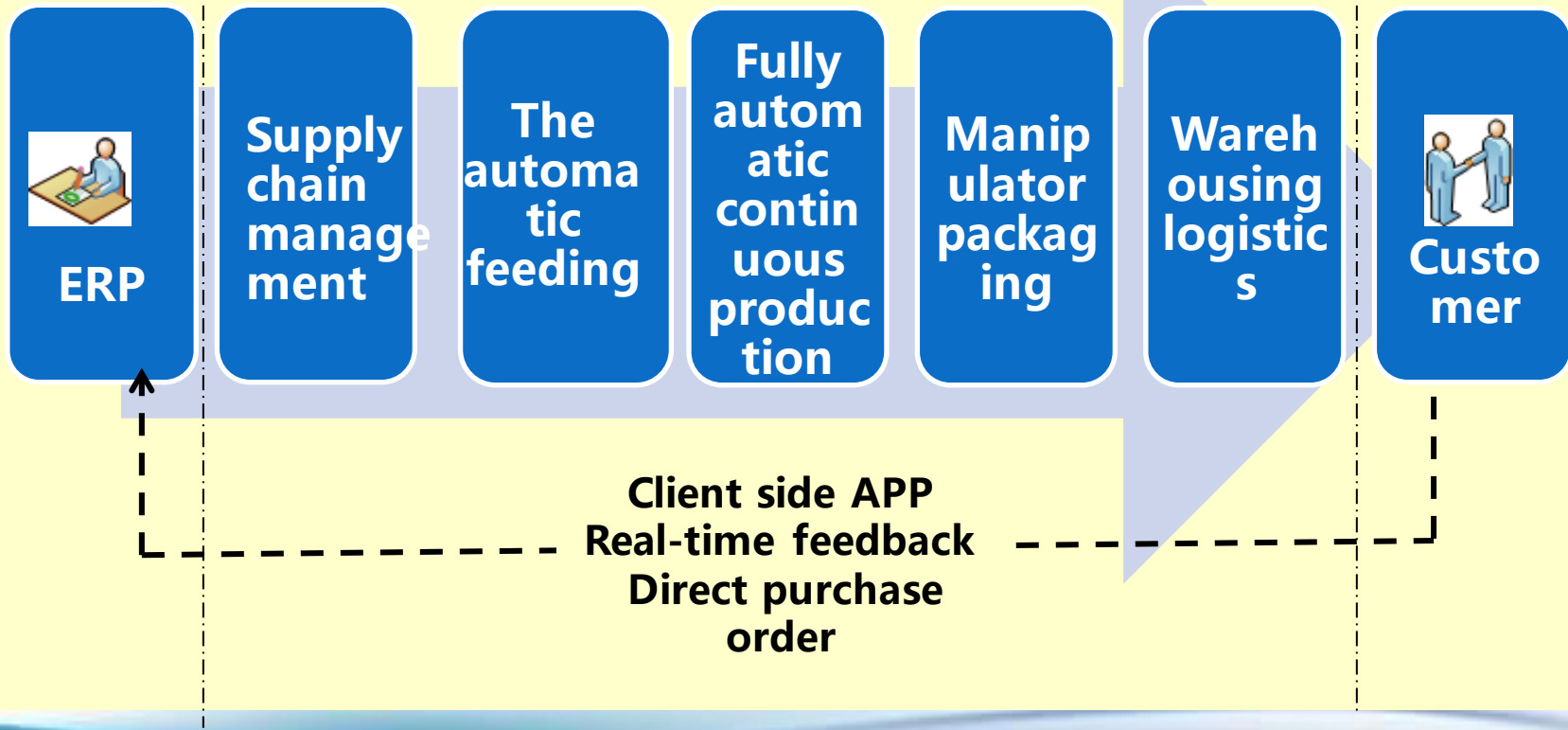




In 2015, A new generation of green clean intellectual continuous production line was established.



**Though the Internet and mobile monitoring system, each product can be checked.**



## 4. 50 Years Durability Testing

- ▣ Besides providing sealants, BAI YUN also focuses on studying durability performance of Silicone Sealant.
- ▣ This is a glass curtain wall for sealant durability test which was set up in 1997.



# Testing Data

Testing time	Tensile strength of structural sealant	Elongation at TS max
1997	1.20MPa	200%
2007	1.35MPa	150%
2012	1.47MPa	130%
2017	1.39MPa	145%





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## 50 years Durability Research Program



### Xin Jiang Testing Center (Continental Desert Climate)



Temperature:  $-28^{\circ}\text{C}$  to  $50^{\circ}\text{C}$   
Highest Land temperature:  $70^{\circ}\text{C}$

### Guangzhou Testing Center (Subtropical Climate)



High Humidity

## 50 years Durability Testing of BAI YUN sealant





## Q-Lab Florida Testing Center, US.



The largest outdoor high temperature  
and humidity aging test center in the world

## American Testing Center (since 2017)

## Arizona Testing Center, US.



The largest exposure desert  
center in the world



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# Baiyun testing center in the world

Characteristics	Hot and humid climate	Dry hot climate
Eastern hemisphere	Guangzhou	Xinjiang
Western hemisphere	Florida	Arizona



## ❖ BAI YUN Has passed the ISO system authorized by TUV

### Certificate

Standard **ISO 9001:2015**  
Certificate Registr. No. 01 100 106866

Certificate Holder: **Guangzhou Baiyun Chemical Industry Co., Ltd.**  
Unified Social Credit Code: 91440101718185438W  
Registration Address: No. 1, Yun'an Road, Civilian Science & Technology Park, Baiyun District, Guangzhou City, Guangdong Province 510540, P. R. China  
Operation Address: same as above

Scope: Design and Manufacturing of Polymer Sealing Materials

Proof has been furnished by means of an audit that the requirements of ISO 9001:2015 are met.

Validity: The certificate is valid from 2017-04-03 until 2020-04-02.  
This certificate information can be searched on CNCA official website <http://www.cnca.gov.cn>

2017-03-28

*K. Jighe*

TÜV Rheinland Cert GmbH  
Am Grauen Stein · 51105 Köln

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Precisely Right.

### Certificate

Standard **ISO 14001:2015**  
Certificate Registr. No. 01 104 106866

Certificate Holder: **Guangzhou Baiyun Chemical Industry Co., Ltd.**  
No. 1, Yun'an Road, Civilian Science & Technology Park, Baiyun District, Guangzhou City, Guangdong Province 510540, P. R. China

Scope: Design and Manufacturing of Polymer Sealing Materials

Proof has been furnished by means of an audit that the requirements of ISO 14001:2015 are met.

Validity: The certificate is valid from 2017-04-03 until 2020-04-02.  
First certification 2010

2017-03-28

*K. Jighe*

TÜV Rheinland Cert GmbH  
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### Certificate

Standard **BS OHSAS 18001:2007**  
Certificate Registr. No. 01 113 106866

Certificate Holder: **Guangzhou Baiyun Chemical Industry Co., Ltd.**  
No. 1, Yun'an Road, Civilian Science & Technology Park, Baiyun District, Guangzhou City, Guangdong Province 510540, P. R. China

Scope: Design and Manufacturing of Polymer Sealing Materials

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Validity: The certificate is valid from 2017-04-03 until 2020-04-02.  
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2017-03-28

*K. Jighe*

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## 5.Quality Control



RoHS

## 6. BAI YUN service

### ❖ 1. Design Step

- Drawing review

### ❖ 2. Test Step

- Adhesion test and compatibility test

### ❖ 3. Application Step

- Quality Control

- Deglaze Test

### ❖ 4. Technical return visit

### ❖ 5. Training Course

## □ Drawing review

- ✓ 1. Contractor is responsible for providing project info, drawings (joints design) and design data (local wind pressure, maximum temperature, glass size and weight, earthquake data, etc.).
- ✓ 2. BAI YUN examines the project drawings and design data to confirm the parameters, such as wind pressure, panel size, bite, and width.
- ✓ 3. BAI YUN recommends suitable products for customers.



## □ Drawing Review Report

Hot line 400-830-1582  
Techservice@china-baiyun.com  
Global Technical service

BAIYUN LTD

### Report of checking

Project: ATG Diamond

No. BYTS-201708023

Received Documents: ATG Diamond-20170818-Standard sample and node of hotel; ATG Diamond-20170818-Standard sample and node of office.

According to the above technical documents, we recommend that:

#### Structural silicone sealant

Type of curtain wall	Dimension	Site of structural sealant	Wind load	Sealant bite by drawing	Required	Sealant thickness by drawing	Required	Result
Unit curtain wall	1103×3500 mm	HS8+12A+FT10 igu glass w/low-e with aluminum subframe	3.0 KN/m <sup>2</sup>	14.0 mm	11.82 mm	8.0mm	6mm	Approved
Unit curtain wall	1514×4200mm	HS8+12A+FT10 igu glass w/low-e with aluminum subframe	4.0 KN/m <sup>2</sup>	23.0 mm	21.63 mm	8.0mm	6mm	Approved

**Note: The result of checking only for reference, the final determination must be issued by a qualified design unit.**

After checking, Guangzhou BaiYun Ltd confirm that the use of structural silicone sealant meets the requirements of ASTM C1401. If any questions, please contact us.

Check: 利贵良  
Date: 2017.8.24

Recheck: 蒋金博  
Date: 2017.8.25



### □ Adhesion test and compatibility test

- ✓ 1. Contractor is responsible for providing all the related materials needed to adhere sealant in the project for adhesion test and compatibility test. There are some size and quantity requirements for the testing materials.
- ✓ 2. Pretest can be done by BAI YUN or third party lab. Then BAI YUN will provide test report and recommend application methods and steps.

### Adhesion Test & Compatibility Test

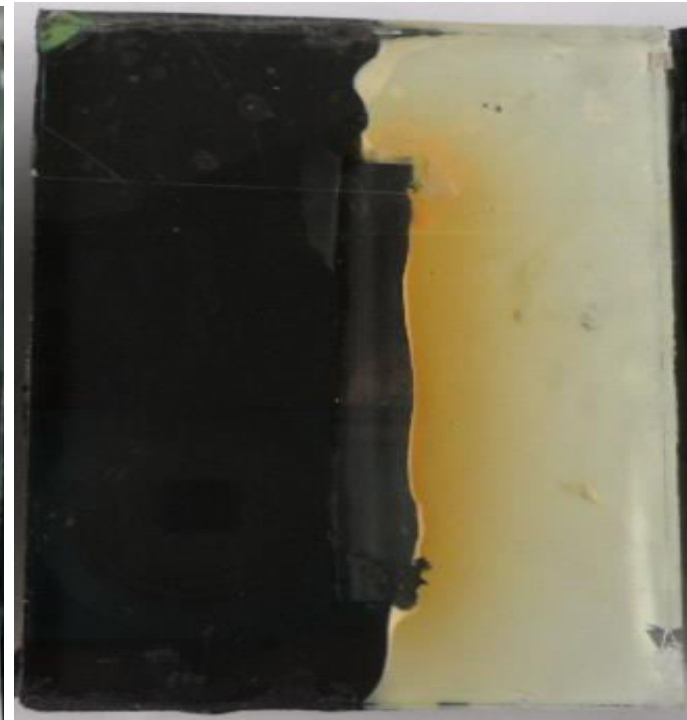
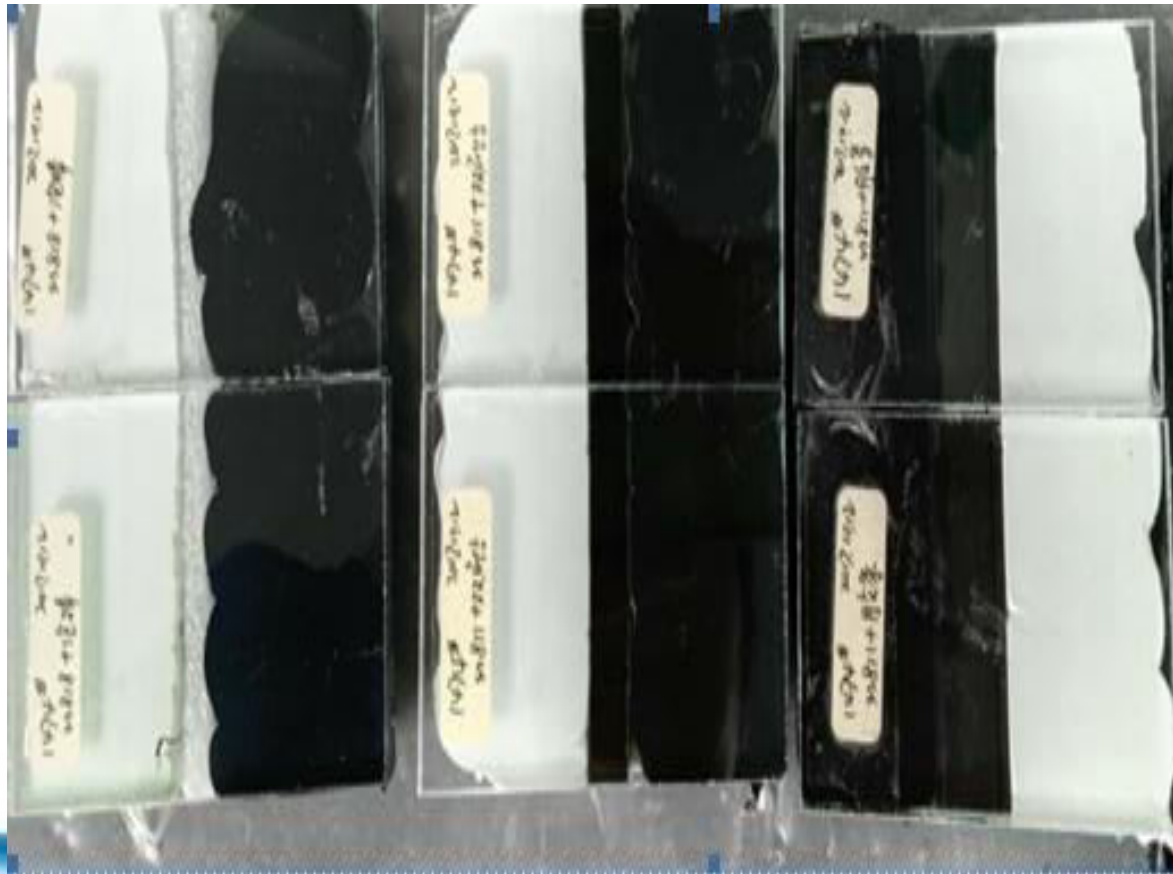


Before each project started, we will do several tests on the materials, including aluminum, glass, gasket, backer rod, etc.



## 2. Test Step

### Compatibility test based on ASTM C1087



incompatible

Rubber  
strip



## 2. Test Step

After each test, we will issue CNAS test report.




NO.: BYHG-A20170926-1466

### Test Report

Project name: Vincom Thanh Hoa  
Contractor: Quan Dat  
Product name: SS811 Silicone Weather-proofing Sealant  
SS621 Silicone Structural Sealant  
Test type: Commission Test

Guangzhou Baiyun Chemical Industry Testing Center  
Date: 2017-10-30



NO.: BYHG-A20180412-1562

### Test Report

Project name: Nha Trang Condotel  
Contractor: Austdoor  
Product name: SS628 Silicone Structural Sealant  
Test type: Commission Test

Guangzhou Baiyun Chemical Industry Testing Center  
Date: 2018-05-21

### 3. Application Step

#### □ Quality Control

- ✓ 1. **Application Record**. Contractor needs to do the record for daily application.
- ✓ 2. **QC system**. BAI YUN help contractor to set up a quality control system. We help our customers to ensure good sealant performance.

## Quality Control Test

For Two-Part Structural Sealants	For 1-Part Weather proofing Sealants
Butterfly test	Skin-over time test
Snap time test	Elastomeric test
Peel off test	Peel off test
Deglazing test	Hand pull test

## Quality Control Test



Skin-over time: [check curing time](#)



Elastomeric test: [check curing time](#)

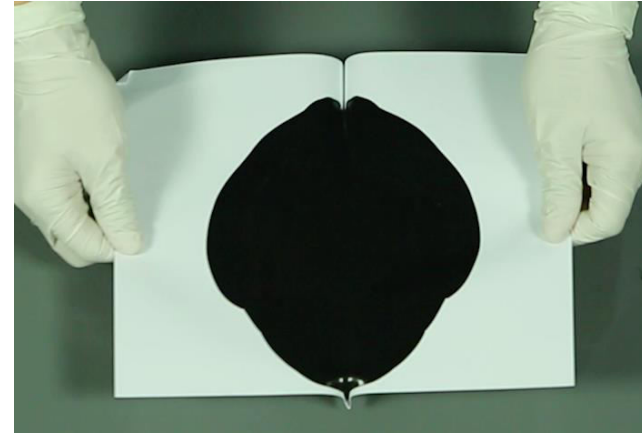
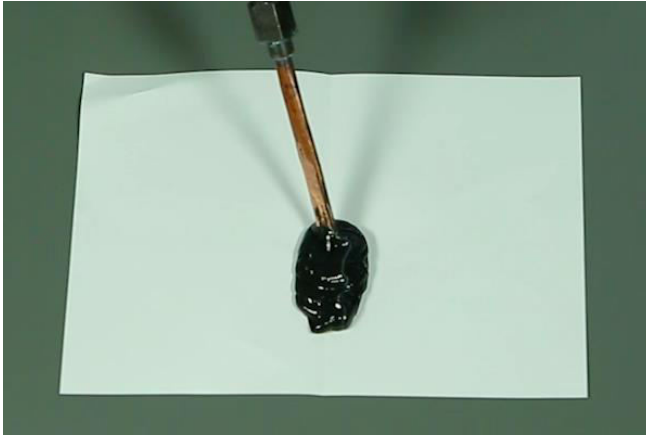




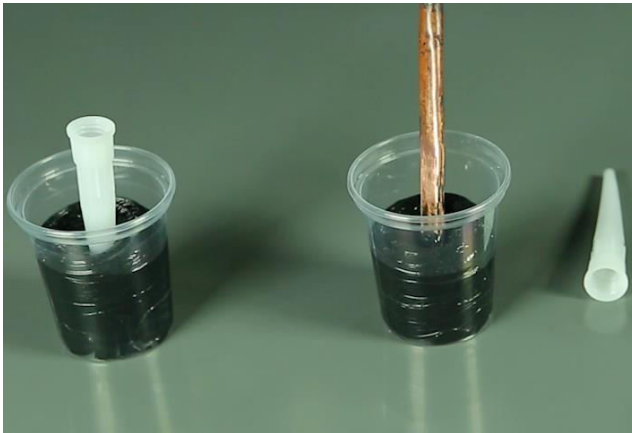
Peel off test: check adhesion condition



Hand pull test: check final quality



Butterfly test: check mixing condition



Snap time test: check curing time





## Deglaze Test







Site adhesion test (peel off test)



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## 4. Project Return Check

Tinian Dynasty Hotel & Casino (built in 1998)

2004: Used BAI YUN to repair

2012: BAI YUN Return visit. Good performance.







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# Return Visit in 2012

## 2012年白云胶工程回访调查表

A Questionnaire about the Projects using Baiyun Sealants

首先感谢各位客户朋友的大力支持。本调查的目的在于了解白云胶经历了时间和实际环境考验后，在各工程项目中的具体表现情况，以及对白云胶的各项性能做出更多积极调整。耽误您宝贵的时间，同时给您带来麻烦，再次向您致谢！

First of all, thank you all for your support. The purpose of this investigation is to check the performance of Baiyun sealants in the all projects after the actual environment testing for a long time, and we will try our best to make some better adjustment for the features of Baiyun sealants. Sorry to take you valuable time, and thanks again for your assistance.

### 一、幕墙或门窗概况 Curtain wall or windows Info

工程名称 Project Name	天宁皇朝赌场酒店密封胶外墙工程		
工程地址 Project Address	Tinian Dynasty Hotel & Casino		
甲方全称 Client Name	地址 Address	联系人 Contact person	电话 Tel
施工单位 Contractors	地址 Address	联系人 Contact person	电话 Tel
开工日期 Starting Date of Project	竣工日期 Finish Date		
工程种类 Project Type	面积 Size	板块尺寸 Unit Size	用胶种类 Type of Silicone Sealant
酒店	21356 m <sup>2</sup>		
员工村	18048 m <sup>2</sup>		

### 二、幕墙或门窗使用情况（单选） Curtain wall or windows Situation (Single Choice)

- 1、是否存在漏水情况 Did any leaking happen? ( )
- A. 无漏水现象 B. 局部轻微漏水 C. 大面积轻微漏水 D. 大面积严重漏水
- A. No leaking B. minor leaking  
C. minor leaking over large area, D. serious leaking over large area

- 2、是否存在玻璃破裂情况 Were there any damage happening to the glass? ( )

- A. 完好无损 B. 偶有破裂 C. 较大面积破裂 D. 更换不透
- A. It's Fine B. little fracture  
C. Large area fracture D. Broken many times.

- 3、是否存在中空玻璃失效 Were there any insulating glasses broken? ( )

- A. 中空玻璃完好 B. 偶有结露现象 C. 大面积出现结露 D. 大面积积水
- A. It's Fine B. Few Moisture condensation  
C. Moisture condensation in large area D. Large area with water

### 三、现场检查情况（多选） Scene inspection situation (Multiple-choice)

- 1、耐候胶是否存在如下情况 Did any happen to weather-proofing silicone sealant below? ( A )

- A. 弹性很好 B. 变硬、变脆 C. 粘结不良 D. 开裂 E. 粉化 F. 变色
- A. Good elasticity B. harden, embitterment. C. Bad Adhesion  
D. cracking E. pulverization F. Change color

- 2、结构胶是否存在如下情况 Did any happen to structural silicone sealant below? ( A )

- A. 强度和弹性很好 B. 变硬、变脆 C. 粘结不良 D. 开裂 E. 粉化 F. 变色
- A. Good strength and elasticity B. harden, embitterment. C. Bad Adhesion  
D. cracking E. pulverization F. Change color

### 四、调查结论（单选） Investigation Result (Single Choice) ( )

- A. 需要改进 B. 无故障使用
- A. Need to improve B. Trouble free

### 五、客户意见和建议：

Opinion and Suggestion:

敬酒店及员工村之建筑物从2004年使用“白云”胶进行外墙及窗口修补工程。在我地区经历了海洋性气候以及地震的考验，到现在为止还未出现大的破损现象，弹性仍然保持一定的强度。我司对此产品极为满意。



2012年6月10日





Return visit after typhoon in Hai nan province



## Return visit after 9years

### 第三部分：检测结果

胶样	检测项目	结果
SS911 超高性能硅酮耐候密封胶	硬度	42 Hardness
SS922 超高性能硅酮结构密封胶 (中空玻璃二道密封)	拉伸粘结强度/MPa	1.38
	最大强度伸长率/100%	186
SS922 超高性能硅酮结构密封胶 (副框与玻璃之间)	拉伸粘结强度/MPa	1.35
	最大强度伸长率/100%	195

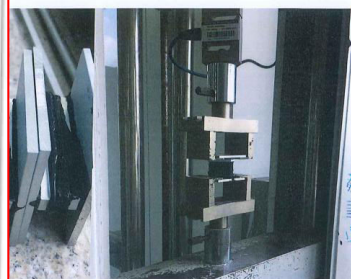
SS911 超高性能硅酮耐候密封胶与基材粘结良好; SS922 超高性能硅酮结构密封胶与基材粘结

1. 幕墙未见漏水情况;
2. 密封胶未出现明显老化, 弹性手感良好;
3. 针对密封胶没有进行过维修;
4. 未发生玻璃整体脱落事件;
5. 有更换过自爆的玻璃。

### 第三部分：检测结果

胶样	检测项目	结果
SS911 超高性能硅酮耐候密封胶	硬度	42
SS922 超高性能硅酮结构密封胶 (中空玻璃二道密封)	拉伸粘结强度/MPa	1.38
	最大强度伸长率/100%	186
SS922 超高性能硅酮结构密封胶 (副框与玻璃之间)	拉伸粘结强度/MPa	1.35
	最大强度伸长率/100%	195

SS911 超高性能硅酮耐候密封胶与基材粘结良好; SS922 超高性能硅酮结构密封胶与基材粘结



结构胶重新粘接试片和测试过程

### 第四部分：结论

基于对该幕墙密封胶应用情况的调查, 我可结论如下:

- (1)SS911 超高性能硅酮耐候密封胶经过 8~9 年的老化, 与基材粘结良好, 弹性依然良好, 能够继续保证幕墙的耐候密封;
- (2)SS922 超高性能硅酮结构密封胶经过近十年的老化, 与基材粘结良好, 拉伸粘结强度为 1.38MPa, (2008 年, SS922 的企业标准规定密封胶的拉伸强度  $\geq 1.2\text{MPa}$ , 出厂检验记录为: 1.31MPa 左右), 强度并未出现下降, 同时弹性依然保持良好, 可以继续保证幕墙的结构粘结安全。

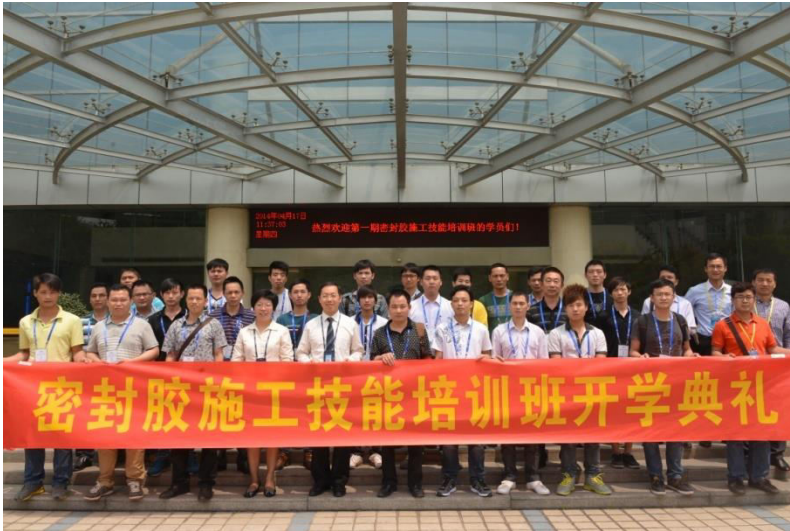
广州市白雲化工實業有限公司  
2017 年 9 月 28 日  
技术服务专用章



白云化工  
美好未来 卓越人生

Guangzhou IFC  
built: 2008  
return visit: 2017

## 5. Sealant Application Skills Training Course



Moreover, in order to guarantee construction quality, BAI YUN has held *Sealant Application Training Course* for sealant workers since April 2014. The course was not only offered professional sealant knowledge to workers, but also raise their awareness on curtain wall security and responsibility .

BAI YUN will continuously offer perfect products for customers.

With advanced technology and strong research power, BAI YUN aims to be the global leader in silicone sealant industry.



# Training Course



**Domestic:** 19 times more than 1000 students which involved 400 enterprises

**Oversea Market:** Vietnam, Bangladesh, Philippines and etc.

# Training Course





**Baiyun Technical Training**

Customer	Aust-Phils Aluminum Int'l, Inc.	
Date	February 13, 2015	
Theme	Sealant Application and Quality Control	
Content	1. Sealant application procedures 2. Quality control test during application 3. Common problems	
Trainer	Bennet Tsai / Technical Engineer	
Trainees	Name	Position
1	REYNOLDS, R. E. J.	SEALANT APPLICATOR
2	HERRON, E. CHADWICK	SEALANT APPLICATOR
3	Clyde Monroe	Sealant Application
4	Christopher Gutierrez	Sealant Application
5	Wesley Ales Smith	Sealant Application
6	JOEL TORRES	SEALANT APPLICATOR
7	Jimmy ARBAN	SEALANT APPLICATOR
8	ROBERT OLIVER	
9	Renan Correa	
10	Greg Alvarez	Sealant Application
11	JOSE, SANCHEZ	SEALANT APPLICATOR
12	Richard Manciano	
13	Jerry Delacruz	Sealant Application
14	JOSE, ARIZA	SEALANT
15	DAVID, VILLALBA	SEALANT APPLICATION
16		
17		
18		
19		
20		

BAIYUN SINCE 1988  
EXPERT OF SILICONE SEALANT

Email: techsupport@china-baiyun.com

**Baiyun**

## CERTIFICATE

No. BYTS-C20150031

This is to certify that

**San Andres. Jeeve**

Of

**Aust Phils Aluminum Int'l Inc.**

Has successfully passed the sealant application test

On March 18, 2015

Manila

*Michael Zhang*

Michael Zhang Technical Director

THEREBY, has mastered the basic skills that can be a qualified applicator to do the sealant application job.

Guangzhou Baiyun Chemical Industry Co., Ltd.

Door-to-door technical services

More than **100** times per year







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## Technical Communication with Consultants





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## Technical Communication- Manila







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## Technical Communications





**Factory Audit by Malaysia BFG  
Façade Consultant , on 27<sup>th</sup>,Nov,  
2017.**



**Technical Communications with Façade  
Consultant ALT Cladding, on 11<sup>th</sup> Mar,  
2017.**





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**Technical Communications with  
Consultant Meinhardt, Shanghai.**



**Factory audit by DPF (DP  
Architects), Ranking as world NO.7.  
On July, 2018.**





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**Factory audit by Meinhardt Malaysia**  
**On 29, August, 2018.**





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## Technical Communications on ASTM C24 Conference, Toronto.



**Baiyun is a member of ASTM Association.**

**Picture:**

**The Baiyun Technical Director - Engr. Zhang Guan Qi, was delivering a speech on the ASTM conference.**



**In Oct 2018, BAIYUN co-organized the 43rd Meeting of ISO/TC59/SC8 on Building sealants.**





## 7. Social Responsibility

### Safety Application of Silicone sealant Forum



- ❖ BAI YUN hold this forum to call on more and more people care about the safety application of the silicone sealant to make sure the safety of curtain wall

The first session in  
2012



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## Safety Application of Silicone sealant Forum



The Second session in 2013



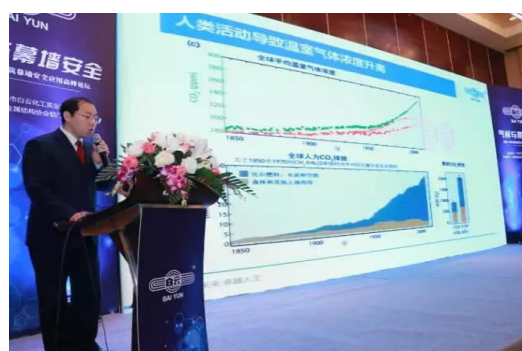
The Third session in 2014



The Fourth session in 2015



The Fifth session in 2016



The Sixth session in 2017



The Seventh session in 2018





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# Zak World of Facades in Indonesia, Aug 24th, 2017





# Zak World of Facades in Indonesia, Aug 24th, 2017



# Zak World of Facades in Indonesia, Aug 24th, 2017







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# Zak World of Facades in Indonesia, Aug 24th, 2017







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# Social Responsibility

BAI YUN scholarship





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# Social Responsibility



## BAI YUN Volunteers Group

## 8. Classic Projects

### Beijing Guotou Plaza



❖ **Consultant:**  
**Meinhardt**

Products:

SS521 Silicone Structural Sealant

SS511B Weather-proof Silicone  
Sealant

SS628 Insulating Glass Sealant

SS821 Clear Structural Sealant





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# Hai Ya Plaza (Shenzhen)





# Shanghai Tower

## 632 meters

Product: SS628 Insulating Glass Sealant

Developer: Shanghai Tower Construction & Dev. Co., Ltd.

Architect: Gensler

Structural Engineer: Thornton Tomasetti

Built in: 2015





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# Landmark Buildings

## Xiamen IFC (339M)



## Wenzhou Trade Center (333M)







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# Beijing Olympics, 2008

## Bird's Nest

## Consultant: Arup



Products:

SS622

SS811



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# Beijing Olympics, 2008

## Water Cube

## Consultant: Arup

Products:  
SS622  
SS811  
SS721



# Guangzhou IFC

**Consultant: Arup**  
**Built in: 2008**



❖ **440.4meters. Tallest  
Hidden frame Curtain  
wall in the world.**

❖ **Curtain wall Unit Size**  
**6.5m\*1.5m**  
**4.5m\*1.5m**





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# Shanghai

## China Pavilion



## ❖ Shenzhen bay sports center--(World University Games-2011)



Products:  
SS622  
SS611/SS911C

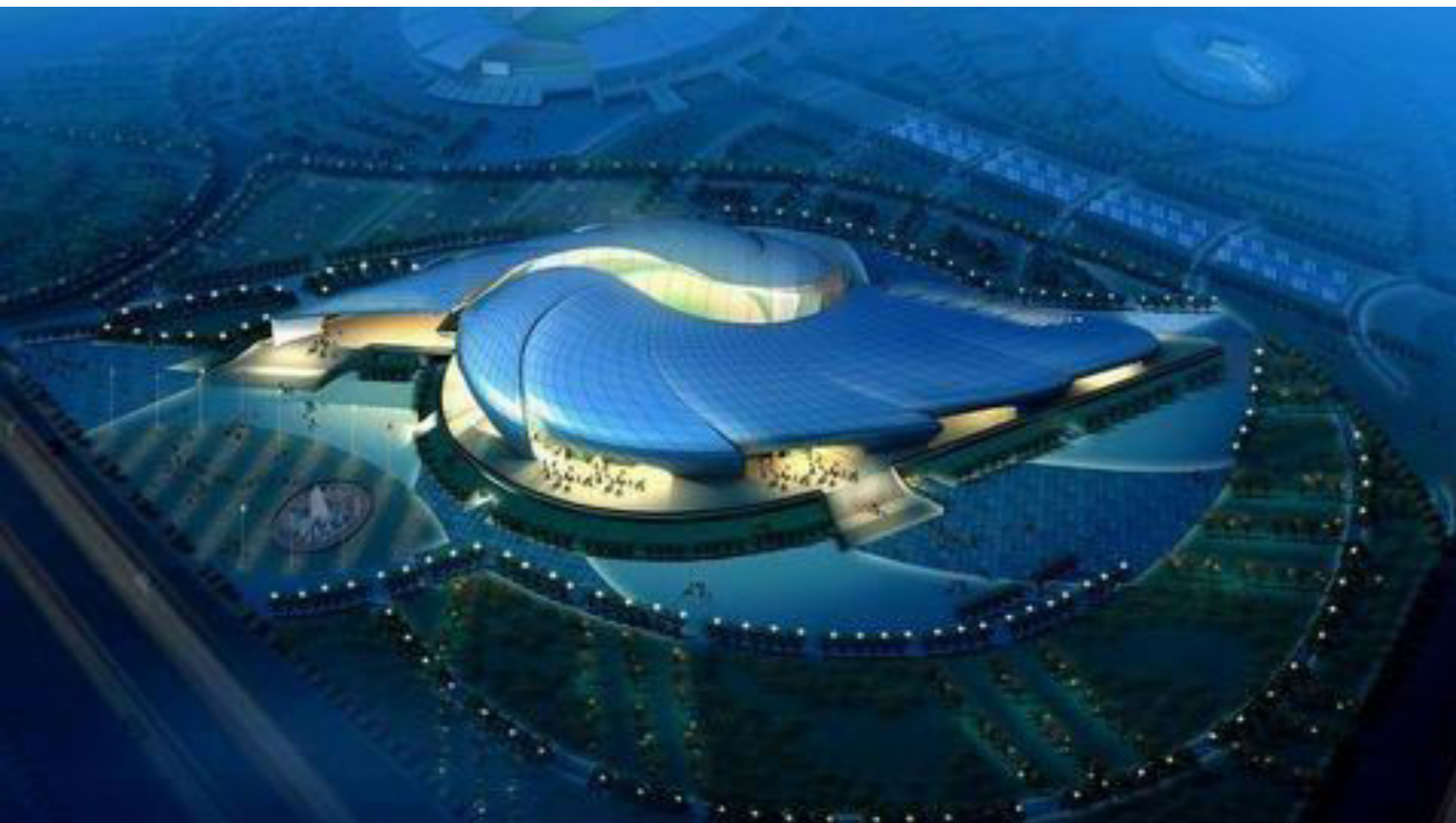




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# Guangzhou

## ❖ Guangzhou Nansha Stadium (Built for the Asian games 2010)



**Products:**  
**SS621**  
**SS611**  
**SS721**





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# Beijing Capital Airport

**7 of China TOP 10 Airport used BAI YUN sealant.**

**Curtain wall: 330,000 Square Meters.**

**Terminal 3 is 2900m long, 790m wide, 45m high, total Construction Area is 986,000 Square meters, the biggest Single Terminal in the world.**



**Products:**  
**SS621/SS622**  
**SS811**  
**SS721**

# Guangzhou Baiyun Airport

❖ It was invested over 3Billion USD. It is the first super hub airport which planned and designed in China.



## Products:

SS621 Silicone Structural Sealant

SS811 Silicone Weather Proofing Sealant

SS721 Big Size Glass Silicone Sealant



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# Shanghai Pudong International Airport

**Curtain wall: 30,000 Square meters**



**Products:**  
**SS621**  
**SS811**





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# Sanya Beauty Crown 7- Star Hotel in China





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# Australia Projects

Lin Q





# Australia Projects

## Aspect residential







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# Australia Projects

## Arbor





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# Australia Projects

## Norwood







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**Name: Lake Side Apartment,  
Melbourne, Australia**



# Australia Projects

**Name: The Fifth Apartment,  
Melbourne, Australia**

**Built in: 2019**







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# Australia Projects

## Other Projects in Sydney and Melbourne and Perth





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# Singapore Projects

## RIVERINE CONDOMINIUM

- ❖ @ KALLANG ROAD
- ❖ Developer - Wing Tai Group
- ❖ Architect - P & T Consultant
- ❖ Main Contractor - Greatearth Construction Pte Ltd
- ❖ Product:
- ❖ SS611 Weather-proof Sealant





## Singapore Art School

- ❖ Developer - Ministry of Information/Arts
- ❖ Architect - WOH Architects
- ❖ Main Contractor - Tiong Aik Construction Pte Ltd
- ❖ Product:  
SS611 Weather-proof Sealant





- ❖ Developer - Sim Lian Investment
- ❖ Architect - Metaphor Design + Architecture
- ❖ Main Contractor - Sim Lian Construction Co Pte Ltd
- ❖ @ LORONG 6 TOA PAYOH
- ❖ Product:
  - SS611 Weather-proof Sealant
  - SS621 Silicone Structural Sealant





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# South Bank

- ❖ **SOUTHBANK @ NORTH BRIDGE ROAD**
- ❖ Developer - UOL Group
- ❖ Architect - DP Architects Pte Ltd
- ❖ Main Contractor - Low Keng Huat (Singapore) Ltd
- ❖ Product:  
SS611 Weather-proof Sealant







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# Tribeca Condominium

- ❖ Developer - City Developments Group
- ❖ Architect - RSP Architects
- ❖ Main Contractor - Tiong Seng Contractors Pte Ltd
- ❖ Product:  
SS611 Weather-proof Sealant







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# One Commonwealth

Developer - Wintech Commonwealth Pte Ltd

Architect - AC Consortium Pte Ltd

Main Contractor - Chan Rong Fen Building Construction Pte Ltd

Product: SS611 Weather-proof Sealant





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## NewYork 100



Contractor: Gothem Greenwich  
Contraction Co., LLC  
Design: Ateliers Jean Nouvel  
SS611 Silicone Weather Proofing Sealant





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# Ryugyong Hotel (North Korea)







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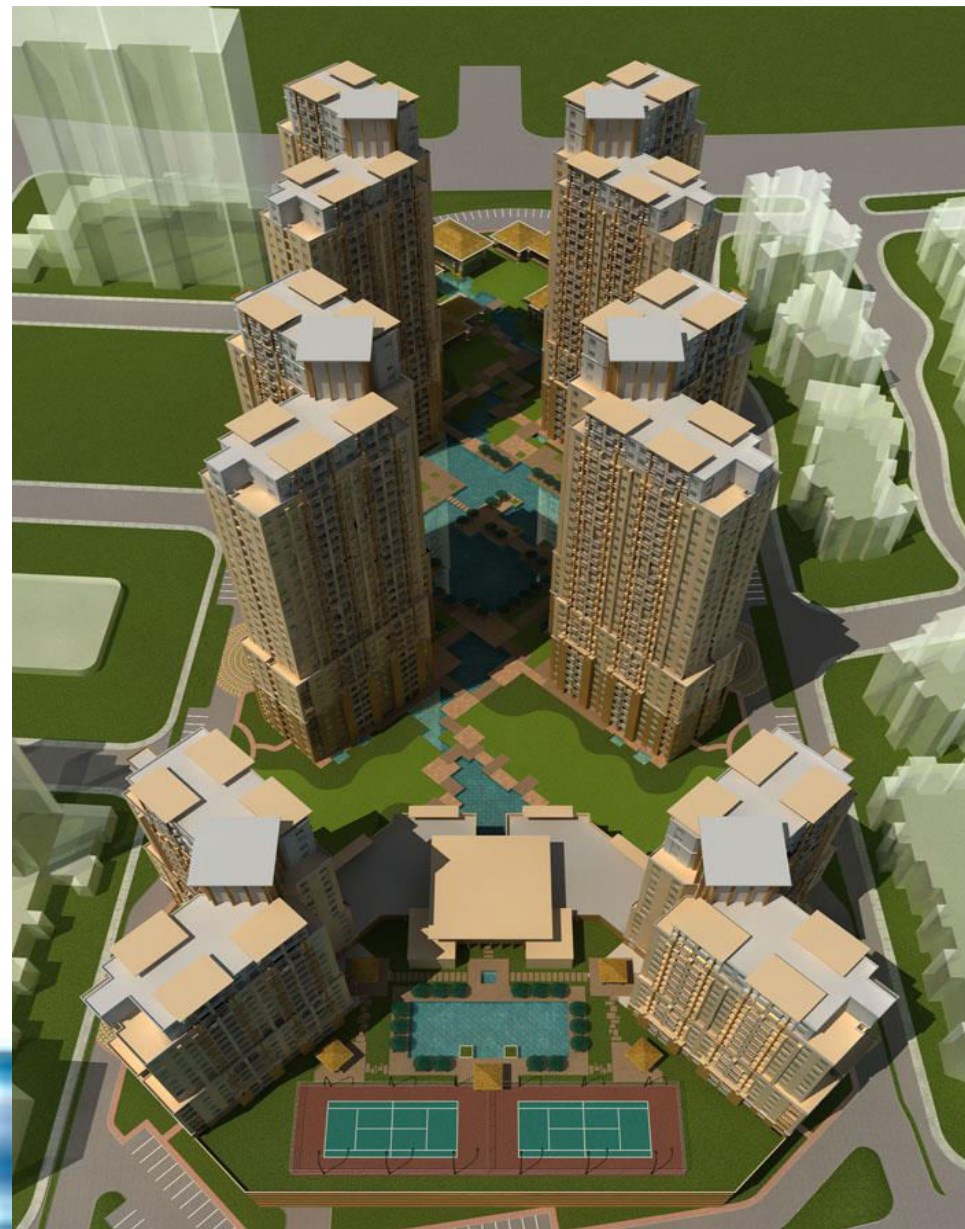
# Philippines

The Grove Tower(E & F)  
(Manila)

Consulant: ALT

Developer: Rockwell

Products:  
SS811E,SS621





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# Philippines

## One Uptown Residence

**Owner:** Megaworld

**Architect:** Casas + Architects

**Product model:**

**SS622 Silicone Structural Sealant**

**SS811E Weather proofing Sealant**







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# Philippines



## Tera Tower (Manila)

**Developer: Robinsons  
Land Corporation**

**Consultant: ALT**

**Products:**

**SS622 Two part Structural Sealant  
SS811E Weather proofing Sealant**





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# Philippines

## Abreeza Tower

Developer: MDC

Consultant: ALT



Products:  
SS811E  
SS821  
SS801



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# Philippines

**Project: Double Dragon Plaza**  
**Developer: DoubleDragon Properties Corp**  
**Architect: Design coordinates**  
**Consultant: ALT Cladding**  
**Contractor: Aluace Corporation**  
**BAI YUN Silicone Model:SS622/SS818/SS811E**







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# Philippines

**Project: East Gallery Place**  
**Developer: Ayala Land Premier**  
**Architect: GF PARTNER**  
**Consultant: ALT Cladding**  
**Contractor: Aluace Corporation**  
**Products: SS622/SS811E**





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# Thailand

**Project: Canapaya Residence Tower**  
**Developer: Canapaya Property Co.,Ltd.**  
**Architecture: Palmer&Turner**  
**Storey: 57 storeys(270m height)**  
**BAI YUN Silicone Model:**  
**SS922,SS622,SS811**

**Glass Size: 2595mm\*3031mm**  
**10mm+1.52PVB+10mm Low E**  
**+12A+10mm**





# Doha High rise office building



- ❖ Developer H.E. Sheikh Saoud Bin Mohamed Bin Ali Al-Thani
- ❖ Contractor: China State Construction Engineering Corporation
- ❖ Built in: 2012
- ❖ SS622 Silicone Structural Sealant
- ❖ SS811 Silicone Weather Proofing Sealant



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# Vietnam

## Handico Tower-Hanoi



## Eurowindow Multi Complex Hanoi







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**D'. Le Roi Soleil, Hanoi**

**Developer: Tan Hoang Minh Group**

**Silicone Models:**

**SS850 Neutral Silicone Sealant**

**SS811 Weatherproofing  
Sealant**

**Window Contractor: HTH**

**Built in: 2018**





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## Vincom Thanh Hoa

**Developer: Vingroup**

**Storey: 33floors**

**Silicone Models:**  
**SS850 Neutral Silicone Sealant**  
**SS811 Weatherproofing**  
**Sealant**  
**SS621 Structural Sealant**

**Curtain Wall Contractor:**  
**Quan Dat Hanoi**

**Built in: 2018**







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## Vinhomes Metropolis-Hanoi

**Developer: Vingroup**

**Storey: 41 floors**

**Main contractor:  
Coteccons**

**Silicone Models:  
SS850 Neutral Silicone  
Sealant**

**Window contractor:  
BM Window &  
HGA**

**Built in: 2019**



  
VINHOMES  
metropolis



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# Vinpearl Condotel Nha Trang



**Developer: Vingroup**

**Silicone Model:**

**SS621 Structur**

**SS811 Weatherproof Sealant  
al Sealant**

**SS628 Two Part Structural Sealant**

**Façade Contractor: Austdoor**

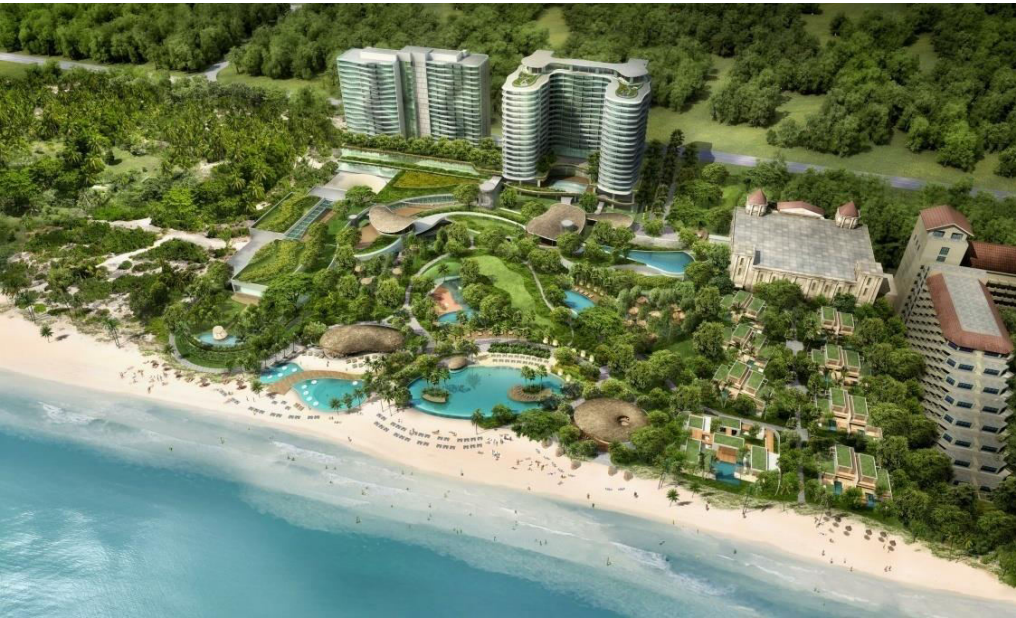
**Built in: 2018**





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# The J.W. Marriot Hotel - Danang



**Developer: Vietnam Silver Shore  
Investment Development**  
**Total Investment: 213 Million USD**  
**Contractor: Shenzhen Ninefold  
Construction Group**  
**Total Construction area:  
173.8 thousand m<sup>2</sup>**  
**Features: Luxury hotel and resort**

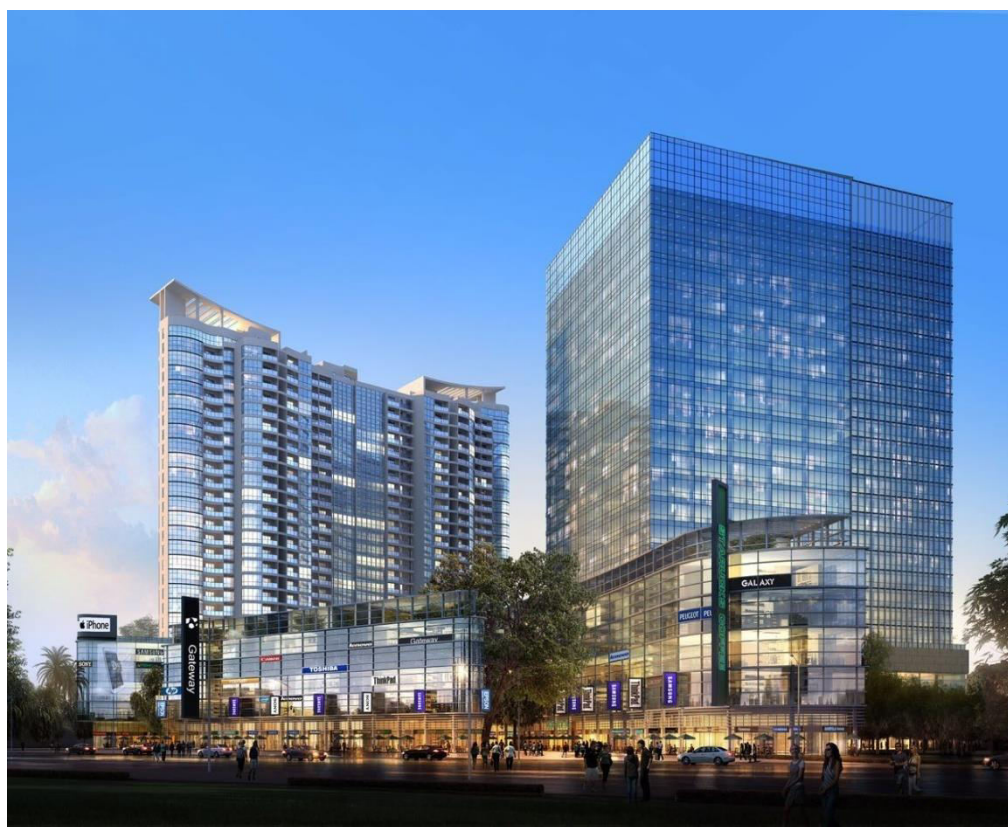
**Silicone Model:**  
**SS621 Structural**  
**SS511B Weatherproof Sealant Sealant**  
**SS628 Two Part Structural Sealant**



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# Myanmar

## Time City- Yangon



**Silicone Model:**

**SS621 Structural**

**SS511B Weatherproof Sealant Sealant**

**SS628 Two Part Structural Sealant**





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# Myanmar

## Hilton - Yangon



**Silicone Model:**

**SS621 Structural**

**SS511B Weatherproof Sealant Sealant**

**SS628 Two Part Structural Sealant**



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# Myanmar

## Sanchaung Garden Residence







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# Dubai, U.A.E



## Churchill Tower

Construction time: 2010

Architect: DAR Consul

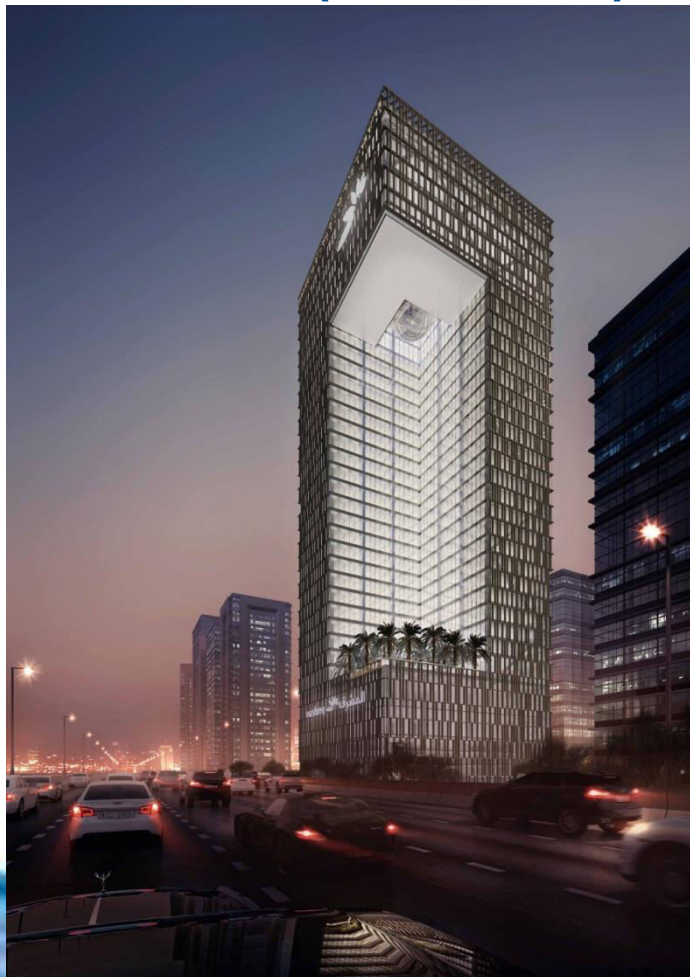
Products:

SS811 Silicone Weather Proofing Sealant



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## Mashreq Bank Headquarte Dubai, U.A.E (165m tall)



## Emirates Park Tower Dubai, U.A.E







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**Qatar**

# National Convention Center (2011)



Developer: Qatar Foundation

Lead Contractor: Baytur Construction

SS811 Silicone Weather Proofing Sealant

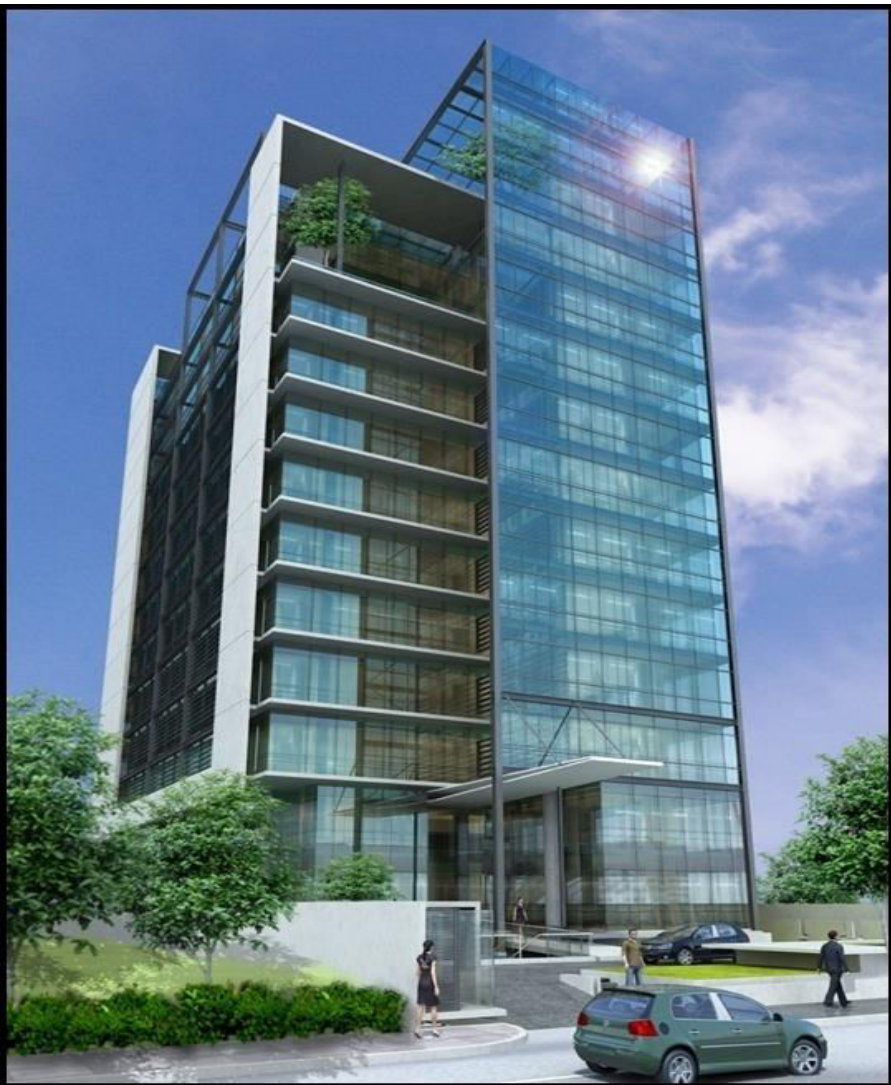
SS621 Silicone Structural Sealant



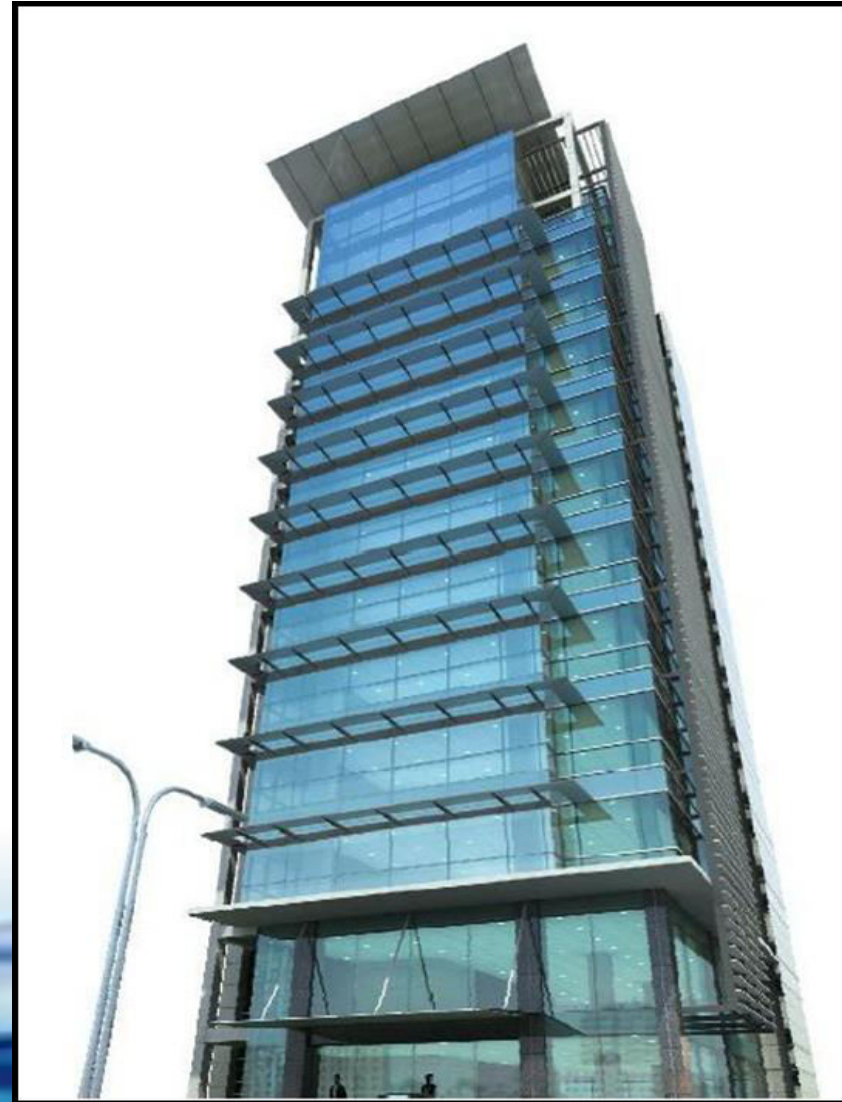
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# Bangladesh

## Simple Tree(Leed project)



## Eastern Housing Ltd







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# Bangladesh

## Bashundhara Convention Centre





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# Tanzanian

## PSPF Tower







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# Ethiopia

## African Union Conference Center



SS521 Silicone Structural Sealant  
SS511B Silicone Weather Proofing  
Sealant  
Built in: 2011



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**South America-Chile**

## Parque Titanium







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South America-Ecuador

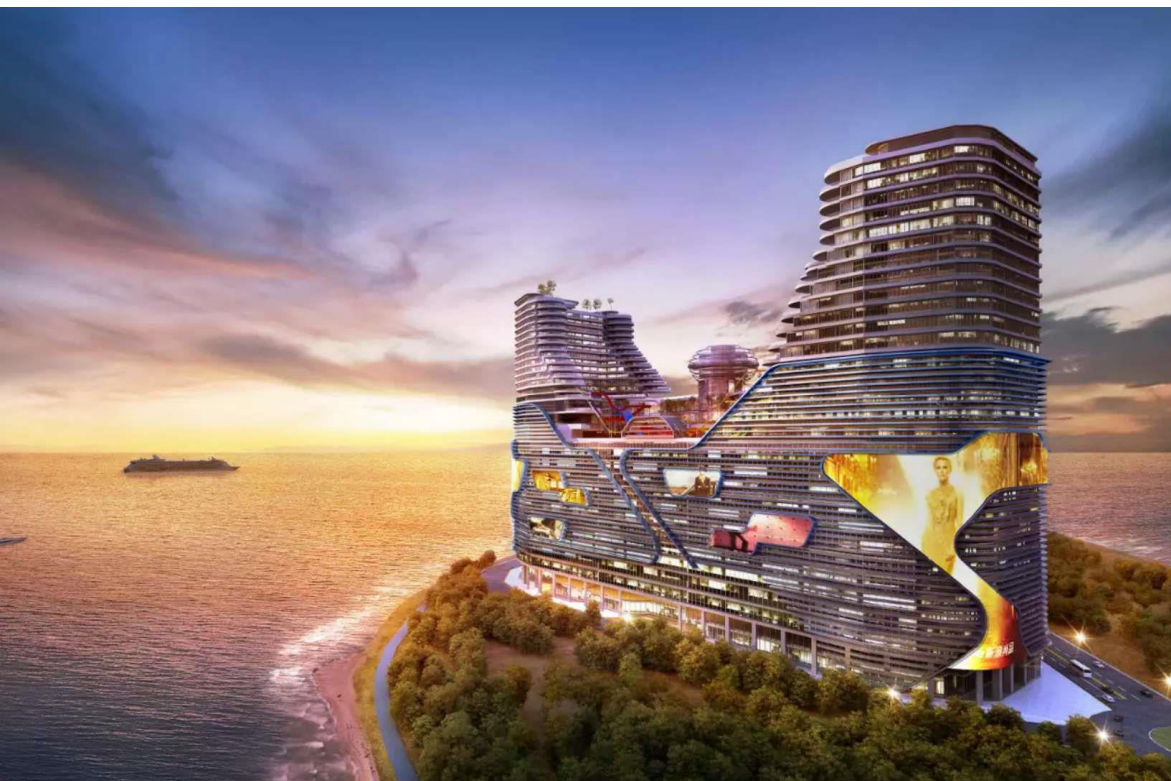
## South American Countries Union Building





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# Malaysia



Project: Harbor City-Malacca

Contractor: Neata Aluminium Sdn Bhd  
China Construction Decoration  
Group (M) Sdn. Bhd.

Products:

SS621 One Part Silicone Structural  
Sealant

SS511B Silicone Weather-proofing Sealant

SS850 Neutral Silicone Sealant

SMP551 Silane Modified Polyether Sealant

Stage: On going





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# Malaysia



## JKG Tower

Consultant: **Meinhardt**

Contractor: Angkasa Jasa

Product:

SS821 Clear Silicone Structural Sealant

Built in: 2016

Address: Jln Raja Laut/Jln TAR, Kuala Lumpur



**IBN NO.1 @ Genting**

**Contractor: Li&T Engineering Sdn. Bhd.**

**Product: SS521 Silicone Structural Sealant**

**SS511B Silicone Weather-proofing Sealant**

**Built in: 2017**







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# Malaysia

**Prima homes in Seremban**

**Contractor: Li&T Engineering Sdn. Bhd.**

**Product: SS850 Neutral Silicone Sealant**





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# Malaysia

**Pavilion Hilltop at Mont Kiara**

**Contractor: Li&T Engineering Sdn. Bhd.**

**Product: SS850 Neutral Silicone Sealant**







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# Malaysia

**PROJECT: Troika Residences**

**Contractor: Li&T Engineering Sdn. Bhd.**

**Architects: Architects 61 Sdn. Bhd.**

**Product: SS850 Neutral Silicone Sealant**

**Built in: On going**





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# Malaysia

**Forest City in Johor**

**Product: SS850 Neutral Silicone Sealant**

**SMP651 Silane Modified Polyether Sealant**

**Built in: 2018**







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**Thank you!**