

## AFC 多功能塗料介紹



Well Group (HK) LTD



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廣東千色花化工有限公司

# 目录

Contents

- 1 基本信息 Brief Introduction
- 2 性能描述 Product Description
- 3 檢測認證 TESTS & CERTIFICATS
- 4 工程案例 Job Reference



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# 01 基本信息 Brief Introduction

1

*Part One*



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# 基本 信 息

Brief Introduction

1

## 體系及應用

AFC是一款**改性環氧聚氨酯**產品，在保留低VOC、自流平優點的同時，改善了純環氧樹脂產品耐候性差的缺點，并創新性地實現了水下作業功能，對絕大部份環境的施工具有寬容性。

AFC能抵禦大多數化學品的侵蝕，具備防水、防銹、附着力強等優點，廣泛適用於混凝土及金屬材質，如：海事交通工具、橋樑、管道、儲槽、油罐、離岸石油平臺、工業/石化基地等，并為其提供長效保護。

AFC is a modified **epoxy polyurethane** product, which has the advantages of low VOC and self-levelling function, while improving the disadvantage of poor weatherability of pure epoxy resin products. Our innovative underwater operation functions provide tolerated construction environment. AFC can resist the erosion of most chemicals, and has the advantages of waterproof, rust-proof and strong adhesion. It is widely used in concrete and metal materials, such as: marine transportation, bridges, pipelines, storage tanks, oil tanks, offshore oil platforms. , industrial / petrochemical bases, etc., and provide long-term protection.

2

## 產品數據

【顏色 Color】常規白、灰兩色，其他可 -Regular white, two gray colors, other color available

【光澤 Gloss】陶瓷光面 - Ceramic smooth

【比重 Specific gravity】雙組份混合后為1.45KG/L - two components, it is 1.45KG/L

【固含 Solid Content】100%

【漆膜厚度 Paint film thickness】噴塗一遍約0.25mm-0.65mm - Spray 0.25mm-0.65mm per layer

【乾速 Dry speed】溫度0°C-38°C和濕度98%狀態下 - Temperature from 0 ° C -38 ° C and humidity under 98%

表乾 Dry speed : 30mins-1hr , 重塗 : 4hrs - Dry: 30mins-1hr, recoating: 4hrs

實乾 Hard work : 約24hrs

【保質期 Shelf life】不開蓋情況下可儲存18個月  
Can stored for 18 months without opening the cover



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# 基本 信息

Brief Introduction



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## 3

### 使用說明

AFC是雙組份產品，其中A組份是樹脂，B組份是固化劑。  
AFC is a two-component product in which component A is a resin and component B is a curing agent.

【基層處理】待塗基層應該徹底清潔，無油脂、外物以及浮鬆物。**毋需刷塗底漆。** The base to be coated should be thoroughly cleaned, free of grease, foreign objects and floating materials. No need to apply a primer.

【混合比例】二者质量比为A : B=3.4 : 1或体积比为A : B=2 : 1。 The mass ratio of the two is A:B=3.4 : 1 or the volume ratio is A:B=2:1.

【施工工具】滾塗或噴塗，其中噴塗需適量添加稀釋劑。 Rolling or spraying, where spraying requires a proper amount of thinner.

【混合時效】溫度20°C和濕度80%條件下可保持1小時，建議**30分鐘內**使用完畢。 It can be kept for 1 hour at a temperature of 20 ° C and a humidity of 80%. It is recommended to use it within 30 minutes

【施工次數】建議1-2層，特殊需要可以3層。 It is recommended to have 1-2 layers, and special needs can be 3 layers.

## 4

### 特殊說明

- 【1】AFC的A、B組份混合后將產生**放熱**化學反應，熱量越大，使用時間越短。因此，建議混合材料時，以20分鐘內的施工使用量為標準進行少量多次的混合。 The mixing of components A and B of AFC will produce a chemical reaction. The higher the heat, the shorter the use time. Therefore, it is recommended to mix a small amount of multiple times with the amount of construction used within 20 minutes.
- 【2】AFC經日照UV作用后會有不同程度的**褪色**現象，故不建議用作太陽直射地方的面漆。 AFC will have different degrees of fading after UV exposure, so it is not recommended as a topcoat for direct sunlight.
- 【3】AFC施工完畢后的漆膜安全**無毒**，但單純的A組份是有毒性的環氧樹脂、B組份是有刺激性氣味的聚酰胺物，兩者混合并充分反應后会成為一種新的無毒物質。所以，請嚴格依照使用說明之指引。 The paint film after AFC construction is safe and non-toxic, but component A is a toxic epoxy resin, and the component B is a pungent odour polyamide. When the two are mixed and fully reacted, they will become a new non-toxic substance. Therefore, please follow the instructions in the instructions carefully.
- 【4】AFC屬於**剛性**材料，不建議使用在常有震動及移動的位置。 AFC is a rigid material and is not recommended for use in locations where vibration and movement are common.

# 02 性能描述 MAJOY BENIFITS

2

*Part Two*



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# 性能描述

MAJOY BENIFITS

抗化學腐蝕、防水、防銹性能極佳。經香港城市大學破壞性測試，將AFC全包裹的槽鋼置於海水相當的實驗環境，金屬材質可以長達20年不被銹蝕。Excellent resistance to chemical, water and rust. Through the destructive test of the City University of Hong Kong, the AFC fully wrapped channel steel is placed in a seawater equivalent experimental environment, and the metal material can be rusted for up to 20 years.

可于水下及-5°C等環境進行作業，并具備自流平效果。It can work under water in -5 °C environment, and still has Self-leveling effect.

**防腐防銹**  
Anticorrosion and  
rust prevention

B

**施工寬容**  
Construction  
tolerance

D

A

**環保安全 Environmental safety**

VOC含量為零，通過BS6920測試，符合英國飲用水安全要求。The VOC content is zero and tested by BS6920 to meet UK drinking water safety requirements.

**超強附著和硬度**  
Super adhesion and hardness

附著力203磅/平方寸，可作強力粘合膠使用。漆膜硬度接近D84，抗刮、抗撞擊性能優異。Adhesive strength of 203 psi (14bar) (1400kN/m<sup>2</sup>)(1.4N/mm<sup>2</sup>), can be used as a strong adhesive. The hardness of the paint film is close to D84, which is excellent in scratch resistance and impact resistance.



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# 性能描述

MAJOY BENIFITS

加固粘結 Bonding Reinforcement



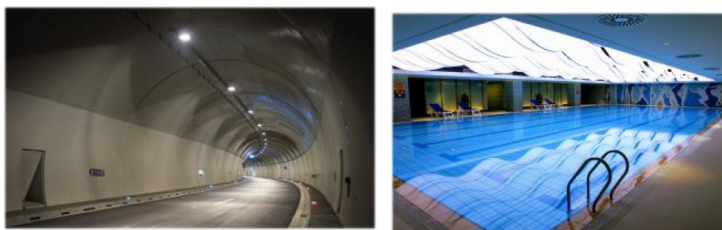
01

水下作業 Work Underwater



02

補漏防水 Water Leakage



03

防腐保護 Corrosion protection



04



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# 03 檢測認證 TESTS & CERTIFICATS

3

*Part Three*



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# 檢 測 認 證

TESTS & CERTIFICATS



No.: ST152912

## 检验报告

Test Report

样品名称: AFC多功能面漆  
 Sample Description: \_\_\_\_\_  
 商标/型号: 千色花  
 Brand Model: \_\_\_\_\_  
 委托单位: 广东千色花化工有限公司  
 Applicant: \_\_\_\_\_  
 检验类别: 委托检验  
 Test Type: \_\_\_\_\_

No.: ST152912  
 国家涂料产品质量监督检验中心(广东)  
 China National Quality Supervision and Testing center for Paintings and Dopes(Guangdong)  
 检验报告 (Test Report)

国家涂料产品质量监督检验中心  
 China National Quality Supervision and Testing center for Paintings and Dopes  
 2015年09月17日

样品名称		生产日期	
Sample Description	AFC多功能面漆	Manufactured Date	2015年08月04日
商标、型号	千色花	批号	CL10124
送检单位	广东千色花化工有限公司	样品数量	A、B膜各5kg
委托单位	广东千色花化工有限公司	检验日期	2015年09月17日
生产单位	广东千色花化工有限公司	检验日期	2015年09月17日
检验依据	标准: Q/JES 6-2012《高性能环氧面漆》 备案号: QB-480765-87-2012 GB 18581-2009《室内装饰装修材料 溶剂型木器涂料中有害物质限量》		
检验结论	检验结论 (Test Conclusion): 见检验结果。		
备注	组分比例: 2 : 1 (膜分 : 粉分), 质量比		
批准:	审核:	检验:	
Approved by:	Checked by:	Tested by:	

广东省佛山市顺德区大良新城区德胜东路 Tel: 0757-2280888 Fax: 0757-2280260 网址: www.tlqci.cn

No.: ST15291  
 国家涂料产品质量监督检验中心(广东)  
 China National Quality Supervision and Testing center for Paintings and Dopes(Guangdong)  
 检验报告 (Test Report)

共 3 页 第 2 页

序号	检测项目	标准要求	单位	检测结果	判定
GB 18581-2009《室内装饰装修材料 溶剂型木器涂料中有害物质限量》					
1	挥发性有机化合物(VOC)含量	-----	g/L	45	实测值
2	苯含量	-----	%	<0.01	实测值
3	甲苯、二甲苯、乙苯含量总和	-----	%	<0.5	实测值
4	游离二异氰酸酯(TDI、HDI)含量总和	-----	%	<0.01	实测值
5	卤代烃含量	-----	%	<0.01	实测值
6	可溶性重金属含量	铅(Pb)	mg/kg	<10	实测值
		镉(Cd)	mg/kg	<2	实测值
		铬(Cr)	mg/kg	<2	实测值
		汞(Hg)	mg/kg	<2	实测值
Q/JES 6-2012《高性能环氧面漆》					
1	在容器中状态	-----	-----	搅拌均匀, 呈均匀状态	实测值
2	涂膜外观	-----	-----	涂膜外观正常	实测值
3	干燥时间	表干	h	<5	实测值
		实干	h	<24	实测值
4	柔韧性	-----	mm	2	实测值

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No.: ST152912  
 国家涂料产品质量监督检验中心(广东)  
 China National Quality Supervision and Testing center for Paintings and Dopes(Guangdong)  
 检验报告 (Test Report)

共 3 页 第 3 页

序号	检测项目	标准要求	单位	检测结果	判定
5	附着力(划格)	-----	级	1	实测值
6	耐冲击性	-----	cm	50	实测值
7	耐磨性(750g/500r)	-----	g	0.018	实测值
8	铅笔硬度	-----	-----	2H	实测值
9	耐盐雾	-----	-----	720h涂膜无异常	实测值
10	耐湿热	-----	-----	720h涂膜无异常	实测值
11	耐液体介质(50%NaOH), 7d	-----	-----	无异常	实测值
12	耐液体介质(28%氨水), 7d	-----	-----	无异常	实测值
13	耐液体介质(5%NaCl), 7d	-----	-----	无异常	实测值
14	耐水性, 7d	-----	-----	无异常	实测值

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# 檢 測 認 證

TESTS & CERTIFICATS

No.: ST154346





中国认可  
国际互认  
检测  
TESTING  
CNAS L0153



(2015)国认监字第4411号

## 检验报告

### Test Report

样品名称: AFC多功能面漆  
Sample Description: AFC多功能面漆

商标/型号: 千色花  
Brand/Model: 千色花

委托单位: 广东千色花化工有限公司  
Applicant: 广东千色花化工有限公司

检验类别: 委托检验  
Test Type: 委托检验

  
 国家涂料产品质量监督检验中心(广东)  
 China National Quality Supervision and Testing Center for Paintings and Dopes (Guangdong)  
 2017年03月30日

由 扫描全能王 扫描创建


No.: ST154346

国家涂料产品质量监督检验中心(广东)  
China National Quality Supervision and Testing center for Paintings and Dopes(Guangdong)

### 检验报告 (Test Report)

共 1 页 第 1 页

样品名称 Sample Description	AFC多功能面漆	生产日期 Manufactured Date	2015年12月11日
商标、型号 Brand、Model	千色花	生产批号 Serial No.	-----
受检单位 Inspected Entity	-----	收样单号 Voucher No.	C1504336
委托单位 Applicant	广东千色花化工有限公司	检验类别 Test Type	委托检验
生产单位 Manufacturer	广东千色花化工有限公司	样品数量 Sample Quantity	3块
抽样地点 Sampling Place	-----	抽样基数 Sampling Base	-----
抽样单位 Sampling Entry	-----	收样日期 Sampling Date	2015年12月21日
		检验日期 Tested Date	-----
样品特征和状态 Sample Character and State	完好		
检验依据 Ref. Documents for the Test	GB/T 1771-2007 《色漆和清漆 耐中性盐雾性试验》		
备注 Remarks	1. 组分比例: 2:1(A组分: B组分, 体积比) 2. 试板由委托方提供		
批准: Approval by	陈伟	审核: Check by	陈伟平
		主检: Tested by	陈伟

  
 检验结论 (Test Conclusion):  
 本次委托检验中性盐雾试验10000h, 检验结果为涂膜无起泡、无生锈、无开裂、无剥落。  
 Sample passed the Salt Spray test over 10000hr, without air bubble, no rust, no crack and not peel off.

复印报告未盖红色“检验检测专用章”无效  
 No copy of this report is valid without original red stamp of testing body

广东省佛山市顺德区大良新城区德胜东路 Tel: 0757-22808888 Fax: 0757-22802600 网址: www.tlqci.cn

由 扫描全能王 扫描创建



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# 檢 測 認 證

TESTS & CERTIFICATS

Test Report No.: 721635266  
Report Date: 19 March 2018



ORIGINAL

**SUBJECT** Microbiological & Chemical Test

**TEST LOCATION** TÜV SÜD China  
TÜV SÜD Products Testing (Shanghai) Co., Ltd.  
B-34, No. 1999 Du Hu Road, Minhang District  
Shanghai 201108, P.R. China

**CLIENT NAME** Guangdong Fortress Chemical Co.Ltd.  
**CLIENT ADDRESS** No.45, Jinhua Road, Xinhua Development Zone, Jiangmen, Guangdong

**TEST PERIOD** 19-Oct-2017~16-Mar-2018

**TEST REQUEST** Please refer to the next page

**CONCLUSION**

1. The results of Odour & Flavour test show that the sample **complies with** the requirement of BS 6920-2000+A1:2014 Part 2, Section 2.2: Odour and Flavour of water.
2. The results of Appearance of water test show that the sample **complies with** the requirement of BS 6920-2000+A1:2014 Part 2, Section 2.3: Appearance of water.
3. The results of Growth of Aquatic Microorganisms test show that the sample **complies with** the requirement of BS 6920-2000+A1:2014 Part 2, Section 2.4: Growth of Aquatic Microorganisms.
4. The results of Extraction of Substances that may be of concern to public health test show that the sample **complies with** the requirement of BS 6920-2000+A1:2014 Part 2, Section 2.5: Extraction of Substances that may be of concern to public health (Cytotoxicity Test).
5. The results of Extractable metals test show that the sample **complies with** the requirement of BS 6920-2000+A1:2014 Part 2, Section 2.6: The extraction of metals.

Prepared By

(Cynthia Cao)  
Report Drafter

Authorized By



Note: (1) General Terms & Conditions as mentioned herein. (2) The results relate only to the items listed.(3) The test report shall not be reproduced except in full without the written approval of the laboratory.(4) Without the agreement of the laboratory, the client is not authorized to use the test results for unapproved propaganda. (5) The test result can be used by client for quality control.

Chemical/Microbiology Laboratory:  
TÜV SÜD Products Testing (Shanghai) Co., Ltd.  
B-34, No. 1999 Du Hu Road, Minhang District  
Shanghai  
201108  
P.R. China

Phone: +86 (21) 6027 6379  
Fax: +86 (21) 6027 6145  
Email: food\_chang@tuvsud.cn  
Website: www.tuv-sud.cn

Regional Head Office:  
TÜV SÜD Certification and Testing  
(China) Co., Ltd.  
No. 101 Heng Yang Road Shanghai  
200120 P.R.China

TUV

Page 1 of 5

TUV

## TEST PERIOD

19-Oct-2017~16-Mar-2018

## TEST REQUEST

Please refer to the next page

## CONCLUSION

1. The results of Odour & Flavour test show that the sample **complies with** the requirement of BS 6920-2000+A1:2014 Part 2, Section 2.2: Odour and Flavour of water.
2. The results of Appearance of water test show that the sample **complies with** the requirement of BS 6920-2000+A1:2014 Part 2, Section 2.3: Appearance of water.
3. The results of Growth of Aquatic Microorganisms test show that the sample **complies with** the requirement of BS 6920-2000+A1:2014 Part 2, Section 2.4: Growth of Aquatic Microorganisms.
4. The results of Extraction of Substances that may be of concern to public health test show that the sample **complies with** the requirement of BS 6920-2000+A1:2014 Part 2, Section 2.5: Extraction of Substances that may be of concern to public health (Cytotoxicity Test).
5. The results of Extractable metals test show that the sample **complies with** the requirement of BS 6920-2000+A1:2014 Part 2, Section 2.6: The extraction of metals.



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# 04 工程案例 JOB REFERENCE

4

*Part Four*



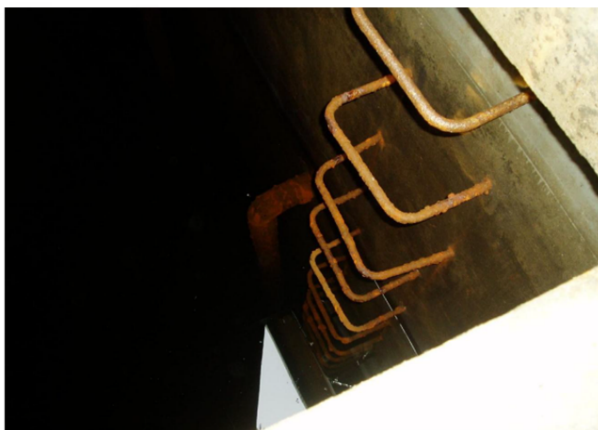
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# 工程案例

JOB REFERENCE



地點：上海市 Shanghai City

項目：居民住宅樓頂

二次供水蓄水池

( 施工滿5年 )

**Location:** Shanghai Shanghai City

**Project:** Residential building roof - Secondary water supply reservoir

(Working for 5 years)



改造前水箱內頂部

Before



改造后水箱內頂部

After



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# 工程案例

JOB REFERENCE



蓄水池排水及池壁清洗



蓄水池排水及池壁清洗



滾塗施工完畢

地點：黑龍江省七台河市

項目：蓄水池

Location: Qitaihe City,  
Heilongjiang Province

Project: Reservoir repairing



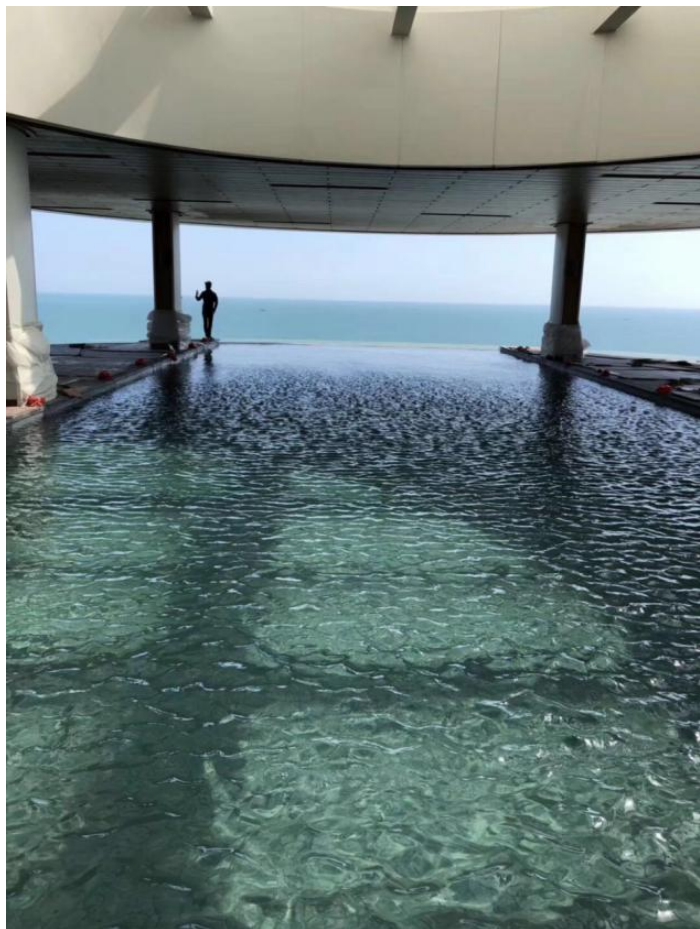
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# 工程案例

JOB REFERENCE



地點：海南三亞

項目：皇冠假日酒店

天臺泳池防水處理

**Location:** Sanya, Hainan

**Project:** Crowne Plaza Hotel,  
Rooftop pool waterproof  
treatment



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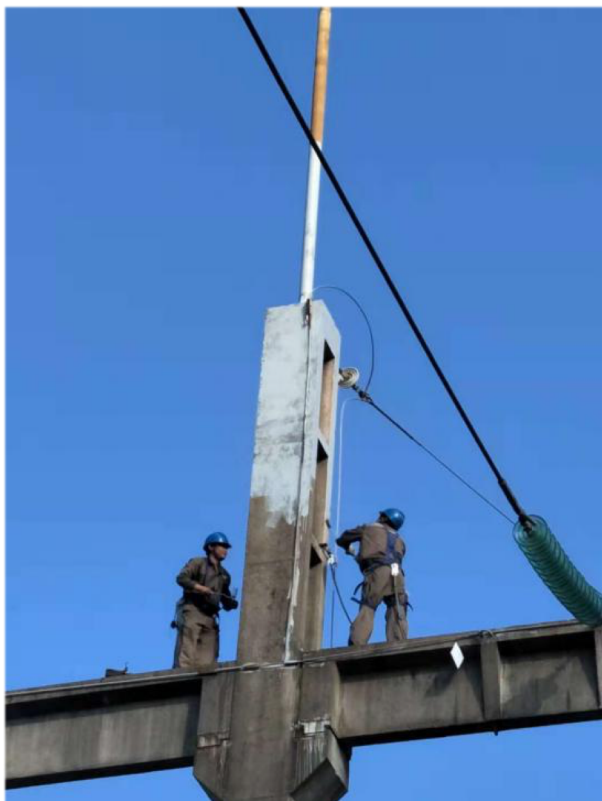


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# 工程案例

JOB REFERENCE



地點：廣東中山  
項目：南方電網  
金里站避雷針  
修護處理

**Location:** Zhongshan,  
Guangdong

**Project:**  
China Southern Power  
Grid, Jinli Station  
Lightning Rod Repair  
treatment



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# 工程案例

JOB REFERENCE



地點：廣東東莞

項目：聯泰製衣廠

天面防水處理

配合聚脲材料使用

**Location:** Dongguan,  
Guangdong

**Project:** Luen Thai Garment  
Factory Surface waterproof  
treatment , used in  
combination with polyurea  
materials



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# 工程案例

JOB REFERENCE



地點：廣東深圳

部門：邊防巡檢

項目：巡邏艇原位修復  
(水線以下)

**Location:** Shenzhen,  
Guangdong Department:  
Frontier inspection

**Project:** patrol boat in situ  
repair (below the  
waterline)



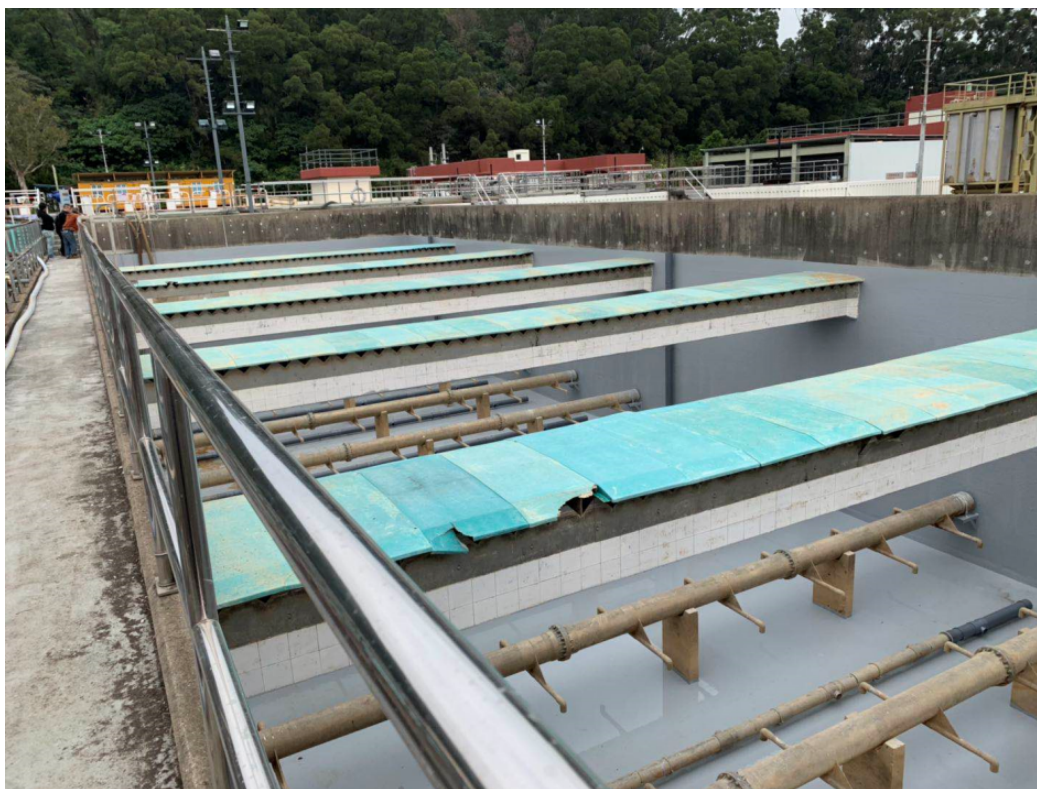
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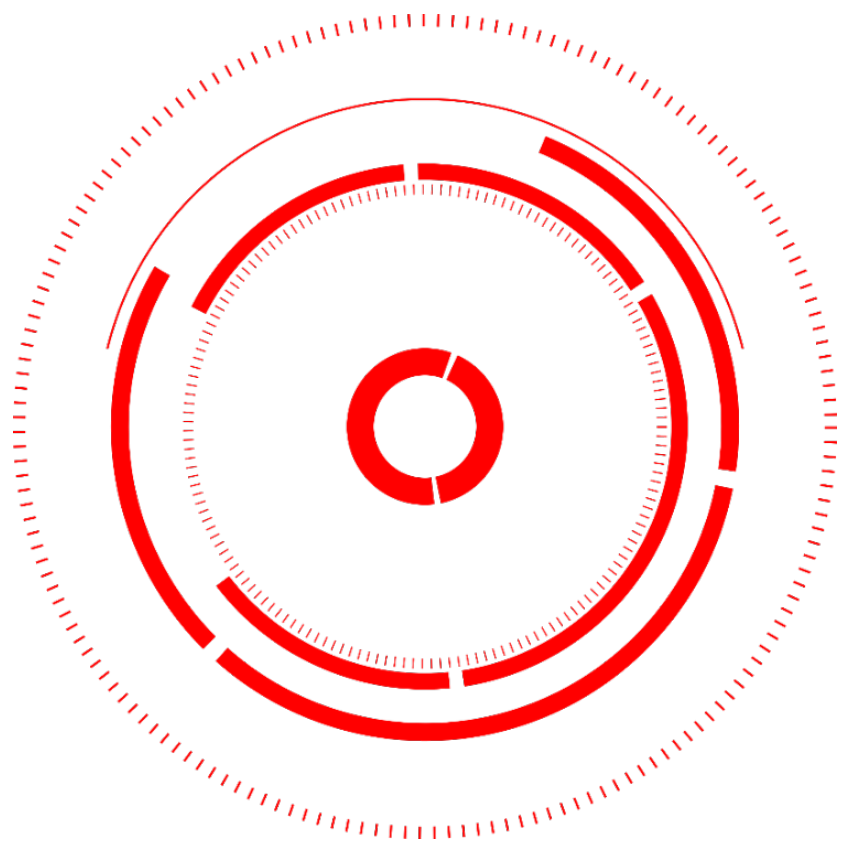


地點：香港荃灣  
部門：香港水務署  
油柑頭濾水廠  
項目：澄清池維護

Location: Tsuen Wan,  
Hong Kong

Department: Hong  
Kong Water Supplies  
Department - Oil  
head water filter  
plant

Project: Clarification  
Pool Maintenance



感謝聆聽！ Thanks You!



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# SHORE HARDNESS SCALES

