



台灣盛隆建材股份有限公司

Taiwan Shenglong Architecture Material Co., Ltd

www.shenglong.com.tw



SL-210

水性滲透型剛性防水塗料



水性塗膜類防水材料

HYDROPHILIC COATING MEMBRANE TYPE WATERPROOFING MATERIAL

『產品簡介』 Introduction

SL-210水性滲透型剛性防水塗料，係以特殊水性丙烯酸脂共聚合物為主要成份，在施工中或施工後，不會釋放出危害人體的有機溶劑，與水泥或骨材拌合均勻，塗佈於施工面，固化成膜後，形成強韌耐磨的防水層膜體，不論是正水壓防水或負水壓抵禦，在長期嚴峻的氣候影響下，依然可達到其完整的防水效能。施工迅速簡便取代舊有材料潮濕面無法施工的窘境，可在最短的時間內完工，且達到一種高效能的防水效果。

The base material of SL-210 hydrophilic penetrative rigid waterproofing coating is special acrylic ester copolymer emulsifier. It won't release the material that can damage people's health during construction or after construction since it does not contain it. It is an organic waterproofing coating with affinity. Mix evenly with inorganic cement material, and coat on the construction face. After solidifying, pliable and wearable membrane will be formed. It is very effective no matter it is for direct waterproofing or for anti negative water pressure in severe climate environment for long. Simple and quick construction: it can replace the old waterproofing material which cannot be applied on the wet face. Construction can be finished in a short time and reach an effective waterproofing function.

『產品特性』 Product Characters

●防水性佳 Good waterproofing character

防水層堅硬，防水層成膜後耐水解，具優異抗水性，吸水比低，可耐一般溫水及弱酸鹼液體，不破壞分子結構。

Waterproofing layer is hard. It is suitable for the negative water pressure place waterproofing. It is resistant to hydrolysis after it forms the waterproof membrane. Good water resistance. Low water absorption. Resistant to warm water, weakly acidic alkaline liquid, no damage to the molecular structure.

●施工性方便、潮濕面可施工 simple construction, and also can be constructed on wet surface

施工簡便，不需使用特殊技能與特殊機具施工便可輕易上手，多層次施工一體成形、無接縫，不平整面亦可完全覆蓋。同樣的在潮濕的素地面下可迅速的完成既定的工作。

It is simple and easy to be used on construction, the special technique or special machine is not needed. Multi-layers construction form an all-in-one seamless membrane which can cover the inflat place. It can be applied on the wet ground face quickly.

●人類安全 safety

本產品系為水性丙烯酸共聚物，無摻合甲苯類…等揮發性溶劑、施工安全，不含氰化物，氯化物及重金屬(鉛、鎘、水銀)等有害物質，適合於飲食用蓄水池內的防水無安全顧慮。

It is hydrophilic acrylic ester copolymer emulsifier without evaporable organic solvent that contains toluene or cyanide, chloride, heavy metal(lead, cadmium, mercury) and other material that may damage people's health. It is suitable for drinking water reservoir waterproofing.

●接著性強 good adhesion

與骨材混合攪拌均勻後，噴塗或塗刷於施工面，因屬水泥基材，與混凝土及水泥砂漿同屬同質性之材質，可緊密的與結構素地面接合，防水完成面亦可直接貼磁磚，不會產生空鼓等現象。

Mix with base material evenly then spray or coat onto the construction face. It is a kind of cement substrate. Thus it possess the properties of concrete and mortar and it can joint the structure very closely. The waterproofing surface can fix the tile directly without hollows.



●膜體高韌性 pliable membrane

除物性上具有機材料的強度、無機材料的耐候性外，配合聚酯纖維補強網(及搭配含聚酯纖維絲的骨材攪拌使用)時，更可加強其膜體厚度及強度，展現極佳的抗裂機能。

It possesses the ductility property of the organic material and the climate resistance of inorganic material. Excellent in crack resistance and thickening the thickness when using in conjunction with polyester fiber strengthening mesh(when mixed-use with the material that contain polyester fiber)

●高滲透性 Good permeability

微細的分子結構，加1~2倍水稀釋後，噴塗佈在施工面上，滲透到結構體中，在結構中固化成膜，形成一層不透水面，填補微細裂縫，表面不成膜，塗多道，表面形成一層耐磨薄膜，直接將水擋除在結構面外。

Small molecular structure, add 1~2 times of water to dilute, spray or coat on the construction face. It can penetrate into the structure and form membrane in it in order to generate a water impermeable face and fill the hairline cracks. There's no membrane on the surface. spray or coat for several times, the surface will become wearable and it can prevent water permeate into the structure.

『產品用途』 Product usage

適用於建築結構體的負水壓防水、防潮工程或內牆面壁癌修繕工程，因屬硬性樹脂，在成膜後膜體堅硬，因此較適合規劃於結構體異動性低之部位，或用於防水層之最底層(防水緩衝層):降低防水層在受地震或結構等，因其表面具有良好的耐磨損及耐候性，可避免主防水層受到外力影響損壞，一般的彈性防水材料其膜體在受外力的影響下會有破損及剝離等現象或情事。

It is suitable for the building structure negative water pressure waterproofing, damp proof project and inside wall cancer repair project. It is rigid(positive ion) resin. It will be a strong and hard membrane after dry. So it is suitable for the low mobility place of the structure or at the bottom of the waterproofing layer(waterproofing lower layer): It can reduce the impact force against the waterproofing layer caused by earthquake or the structure uncertain mobility. It also can be applied onto the top of the waterproofing layer as a protective layer: the damage to the main waterproofing layer that caused by the outside force may be avoided because it is wearable and climate resistant. And the ordinary elastic waterproofing material may be damage or even peel off when the outside force affect it.

●施作於地下室外牆，具有抵禦結構體的毛隙滲漏及反潮…等效果。

It is anti penetration of the pores in the structure in the negative water pressure place and damp proof when applying on the internal face of the basement outside wall.

●對於室內壁體發生壁面脫漆、斑駁、發霉…等現象，將SL-210塗刷於結構牆面或磚塊面上，可有效防止上述問題發生及壁體內黴菌的孳生、擴張…等情事。

The inside wall may be peel-off, mottled and mouldy because of moisture or leaking in the wall. Coat SL-210 on the wall or the tile structure face or the brick face, It can reduce leaking in the pore of the structure in the negative water pressure place and the mould that caused by the mildew expansion in the wall structure.

●施作於消防池、筏基坑內地坪及牆體面之防水措施。可使其結構軀體達到抵禦汗水或地下水滲入污染消防池、蓄水池，因而造成污染或避免汗水外流等情事，筏基坑施做FRP工法，降低施工人員中毒現象，可取代舊有溶劑型epoxy材料因密閉空間通風不良，發生危險。



- It is suitable for the fire pool , raft terrace and wall waterproofing. It can prevent sewage or underground water penetrating into the fire water pool that bring pollution and overflow etc. FRP working method is suitable for the raft. It can prevent poisoning to the construction workers. Also it can replace the old toxic epoxy material. it is dangerous in a close insufficient ventilation space. According to the design, spray or coat the hydrophilic weak acid or alkaline resistant epoxy on the
- 成膜後膜體面堅實，具有高抗水性，對於高蓄水量之泳池、水塔、蓄水池內等特殊之部位施做FRP防水工法，效果特優，更有其特殊的防水效能，※（工法須依現況設計）。

SL-210 is a hard and waterproofing membrane after it is dry. It is very effective in the special part of the swimming pool, water tower, water tank waterproofing. FRP working method is suitable for these areas. (working method should be designed according to the construction site)

- 適用施作於地上或地下樓層外牆結構面或粉刷層表面防水處理，表面貼瓷磚不會空鼓及脫落現象。

It is suitable to be used on the ground or underground floor outside wall structure face or finishing coating layer. It can strengthen the adhesion of the subsequent material.

『產品用途』 Product usage

SL-210複合式防水工法 SL-210 multi-waterproofing working method

素地整理 Clear up the ground

除須將素地清除整理乾淨外，積水處、施工縫及裂縫、蜂巢部位，均先做好補強處理，方可施做防水步驟。

Clean the ground. Strengthening and flattening should be done if any water-logged, cracks or pores etc. after it, the waterproofing construction can be started.

底塗塗佈 Bottom coating

SL-210加3~5倍水稀釋後，塗佈在施工面上1~2道，滲透到結構體，局部比較會吸料處，需加強塗佈，到無法吸入為止。

Add 3~5 times of water to dilute SL-210, coat 1~2 times on the construction face, some good permeability areas should be coated more till it is impermeable.

防水層施工 Waterproofing layer construction

待底塗完全初凝硬化後，再塗佈防水層，防水層施作需注意均勻度與平整性，避免積料等現象。不論施作之防水層次多寡，在每一層施作上都需待上一層施作的膜體面達到初凝乾燥完成並可供人員踩踏，才方可繼續下一步驟。

After the bottom coating is completely solidifying, coat SL-210 waterproofing coating as a waterproofing membrane. make the waterproofing layer flat and even,. avoid too much materials accumulating or uneven situations. Completed initial solidifying before each waterproofing laying construction is necessary.

防水層加附纖維網施工 Add fiber mesh on the waterproofing layer construction

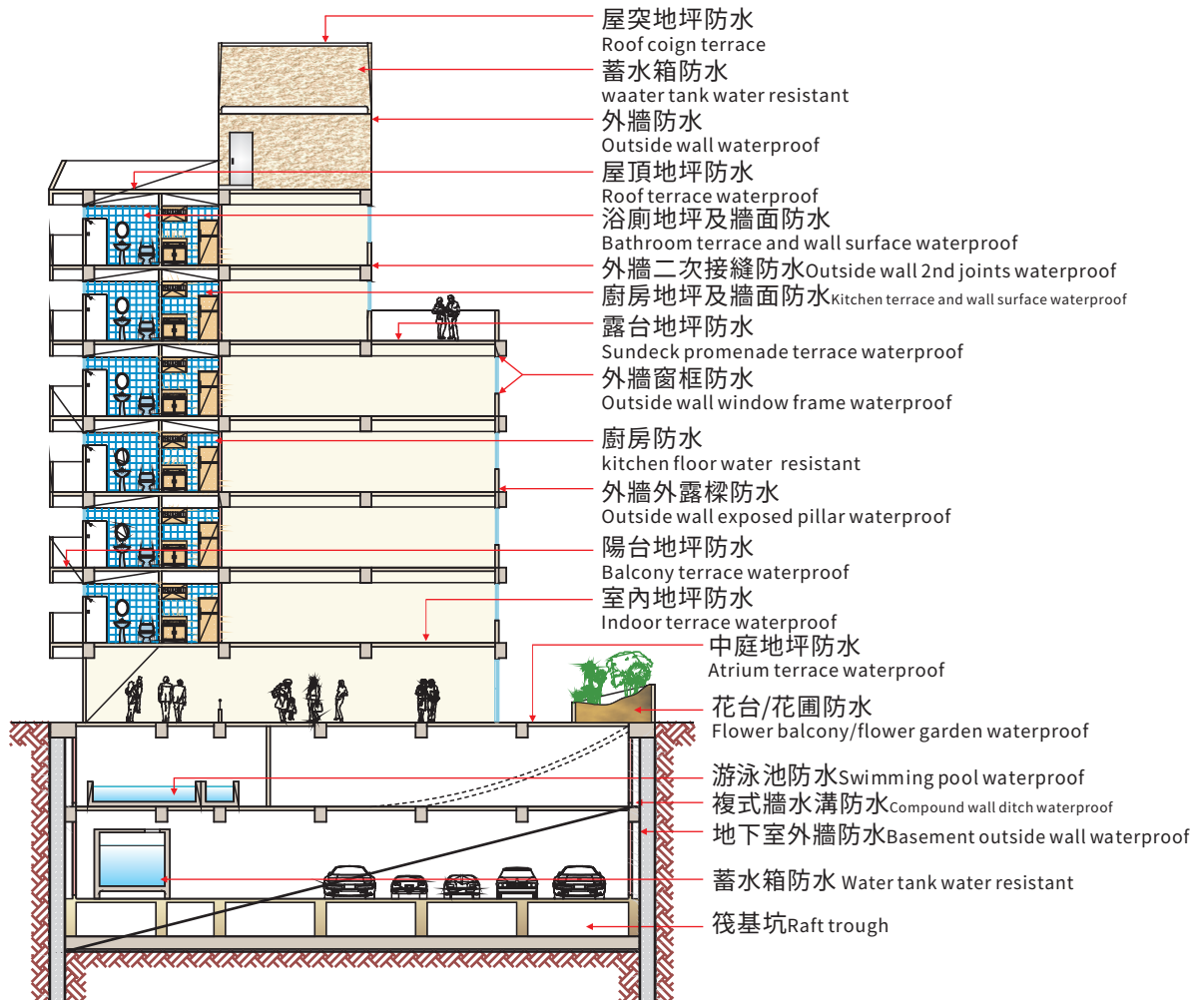
塗佈上防水材，同時舖上玻纖網補強材，並再以防水材塗滿補強材做為防水中塗層，高水壓蓄水池（槽）需加玻纖蓆來加強水壓破壞，不論以滾輪、毛刷及噴塗施作，在使用前需先溼潤，依氣候、溫濕度狀況，各防水層間須要6-12小時不等之硬化期，整體工程完工後須48小時或以上之養生期，以利防水層物性。在材料初凝前，拌合器材及施工器具等以清水沖洗即可。

Coat the waterproof material and lay the fiber glass mesh as the strengthening material. coat the waterproof material on the strengthening material as the middle coating. High water pressure reservoir need to add fiber glass sheet to resist the water pressure. Wet the roller and brush before. 1~8 hours for solidifying among each waterproofing layers is necessary depending on different climate and humidity . 48 hours or above resting period after whole construction completed is needed to maintain the physical characters of waterproofing layers. Before the initial solidifying, clean mixing tools and working equipments with clear water.



『建築物防水施作位置示意圖』

Building waterproof construction position instruction map



『材料配比』 Material proportion

主原料 main material	添加拌和物 additional material	物料配比 material proportion
SL-210	新鮮水泥或矽砂骨材 fresh cement or silicone aggregate	1:1-2

SL-210水性滲透型剛性防水塗料 SL-210 hydrophilic permeable rigid waterproofing coating		
樹脂 (A劑) resin(A component)	骨材(新鮮水泥或特配骨材) aggregate (fresh cement or special aggregate)	清水 clear water
20KG	40KG	±1-2KG

拌合: 請依照比率, 先將樹脂倒入拌料桶內, 再依比率倒入粉體, 依氣候及現況調整黏度加適當的水, 攪拌均勻即可。

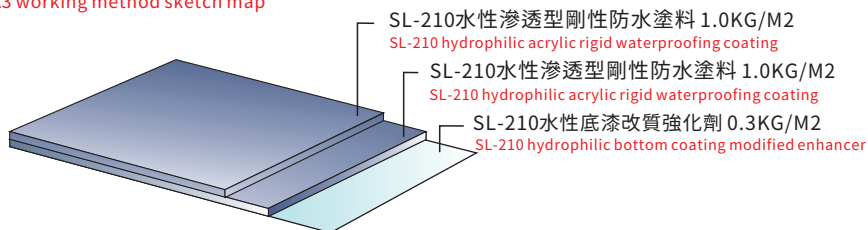
Mixing: Please reference to proportion suggestion. Put resin into the barrels and then put into powder body. Mix well. Clear water is OK for adjusting the viscosity according to the weather.

可使用時間:約1.5小時	單次塗佈用量:0.9~1.0KG/M2	單次塗佈面積:60/M2
Using time: about 1.5 hours	Single painting usage: 0.9~1.0kg/m2	Single painting area: 60/m2



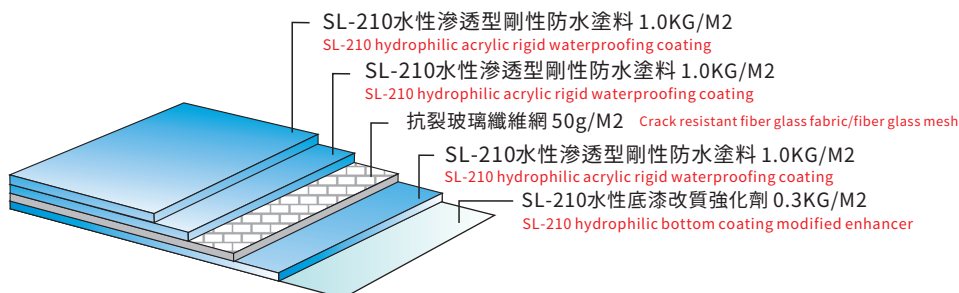
RA3工法示意圖

RA3 working method sketch map



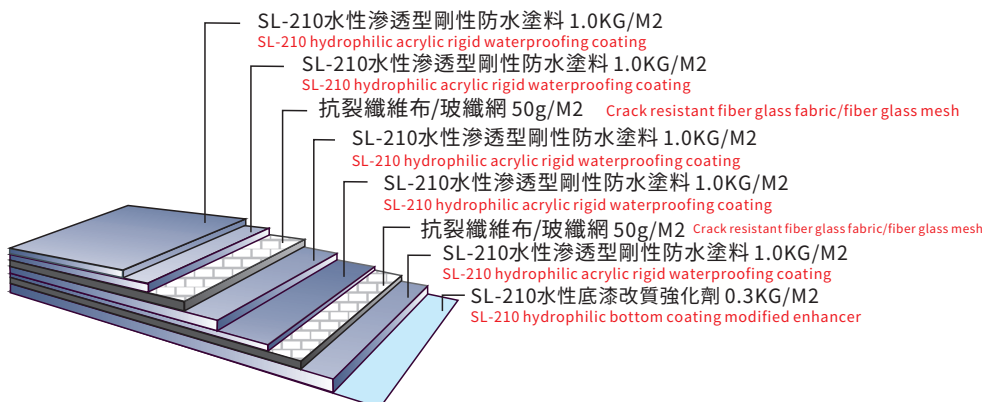
RB5工法示意圖

RB5 working method sketch map



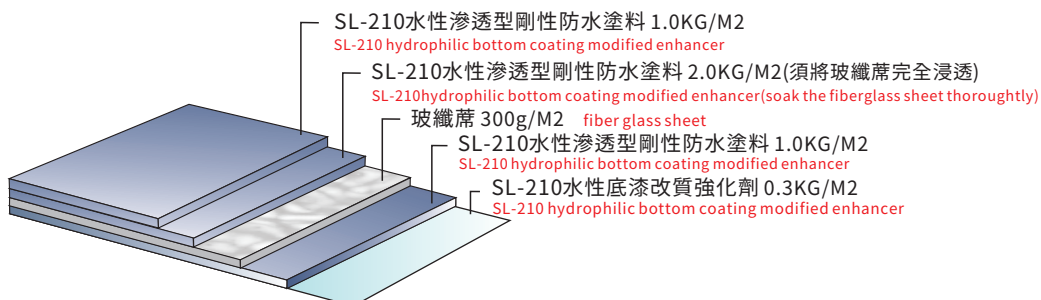
RB8工法示意圖

RB8 working method sketch map



FRP工法示意圖

FRP working method sketch map



* 依現況及設計施工不同可增酌考量施作的層次多寡。

Construction site and design should be taken into consideration when deciding construction layer.

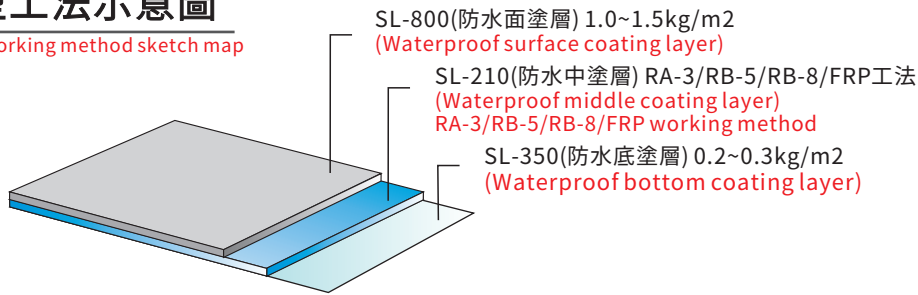
* 材料使用量依素地狀況之不同會有所差異。

Material usage should be adjusted according the different ground situation.



外露型工法示意圖

Disclosed working method sketch map



落水管-管邊補強

Rainspout-side strengthening



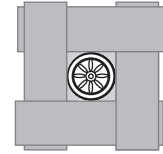
落水管位置
Rainspout location



以落水管為中心
塗佈一底一度防水
Take rainspout as the center to do
spreading and laying waterproof works



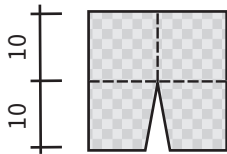
落水管四周
加強一度防水
First waterproof
around rainspout



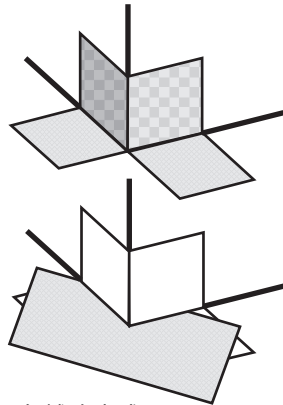
落水管四周
防水加強完成
Waterproof strengthening
work around rainspout is finished

角隅-陽角補強

Outstanding corner strengthening



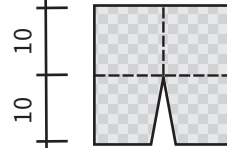
依高度規定剪裁
適當大小為基材
Cut to a suitable size
according to the height
as basic materials



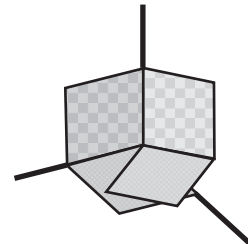
陽角補強完成
Outstanding corner
strengthening work finished.

角隅-陰角補強

Concave corner strengthening



依高度規定剪裁
適當大小為基材
Cut to a suitable size
according to the height
as basic materials



陰角補強完成
Cut to a suitable size according
to the height as basic materials

a. 塗佈防水一底一度

coat the bottom waterproofing coating first time

b. 全面黏貼抗裂不織布或玻纖網

stick crack resistant non woven fabric or fiberglass mesh

c. 塗佈防水二度

coating the waterproofing coating second time

d. 全面黏貼抗裂不織布或玻纖網

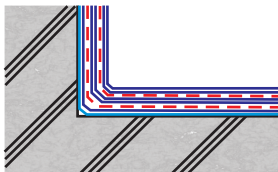
stick crack resistant non woven fabric or fiberglass mesh

e. 塗佈防水二度

coating the waterproofing coating second time

f. 防水完成

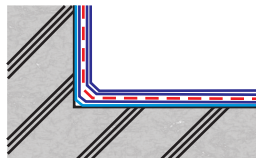
complete waterproofing



角隅收邊及全面補強

(防止牆角龜裂及地震等因素扯破防水層)

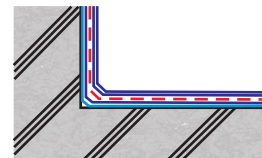
seal the corner and strengthening
(prevent damage to the waterproofing layer caused
by the corner crack or earthquake)



角隅收邊及全面補強

(防止牆角龜裂及地震等因素扯破防水層)

seal the corner and strengthening
(prevent damage to the waterproofing layer caused
by the corner crack or earthquake)



角隅收邊及全面補強

(防止牆角龜裂及地震等因素扯破防水層)

seal the corner and strengthening
(prevent damage to the waterproofing layer caused
by the corner crack or earthquake)

RB-8貼法示意圖

sticking method sketch map

FRP貼法示意圖

sticking method sketch map

RB-5貼法示意圖

sticking method sketch map



『施工規範』 construction specification

參考工法 Reference working method	RA-3	RB-5	RB-8	FRP
屋頂 Roof		△	○	
水箱/水池 Water tank/pool	★	△	○	○
露台 Terrace	★	△	○	
冷氣/窗框 Air conditioner window frame	★			
中庭 Patio		△	○	
SPA		△	○	○
游泳池 Swimming pool		△	○	○
壁體防霉處理 Wall mould proof	○			
室內地坪 Indoor terrace	○			
連續壁負水壓 Diaphragm wall negative water pressure	○			
地下室外牆面 Basement outside wall	○			
電梯機坑內牆 Inside wall of elevator shaped pit	○			
筏基坑底 Raft bottom	★	○		
大底防潮 Plate waterproofing	○			
材料用量 Material usage				

以上各工法為基本面的防水層，其他素地狀況、各式節點、隅角、平面開口、立面開口等施工縫及防水末端，應依各工程狀況設計考量。

The above mentioned working methods are for basic surfaces waterproofing layers. For other ground situations, such as constructing cracks and waterproofing ends of kinds of spots, corners, flat cuts, should put different engineering situations into consideration.

★ 一般ordinary

△ 尚可OK

○ 建議工法 Recommended methods

『中庭水池FRP施作』 Patio Water FRP Construction



『施工規範』 construction specification

- ▲ 室內外氣溫如在5°C以下，相對溼在(85%以上)避免施工。

Do not construct under the environment of below 5°C (indoor/outdoor temperature), and above 85% alternative humidity.

- ▲ 材料正常初凝時間為1.5~3小時，如施工時濕度過高或氣溫過低，請注意材料後續是否如 預期之固結成形，如有因天候之影響無法如預期固結成形時，需再重新補施作。

Normal initial solidifying time is 1.5~3 hours. Pay attention to working humidity and see if the solidifying is proceeded as expected. Re-work if necessary if solidifying could not be finished because of climate influence.

- ▲ 新澆置之混凝土結構體需有28天養生期，待養生期過後再行施作防水，較可讓防水之達到良好之品質。

New concrete structure body need 28 days resting period. Do waterproof work after resting period to make it better.

- ▲ 施作之素地面儘量保持乾燥，如有積水等現象時請將施工面上的積水清除。

Keep ground surface dry. Clean off accumulating water on construction surface before

- ▲ 施作防水之素地面上，如有油漬或可能導致防水層接著不良之化學物質時，請先將其清除後，在污染處從新施作底塗覆蓋污染面。

Clean out greasy stuffs or residual chemicals to avoid bad waterproof performance on working ground before construction. Do polluted surfaces coating work on polluted places.

- ▲ 請按照材料拌合之比重完全拌合後方可使用。

Mix materials totally with percentage instruction before using.

- ▲ 底塗材之附著力決定後續防水之穩定度，施工請注意正確施作程序，而每一道防水層施作都須在先前的材料初凝固化後，方可繼續施作。

The attached strength of ground coating decides the stability of continuous waterproof work, thus correct working procedures are needed. Completed initial solidifying before each waterproof laying construction is necessary.

- ▲ 防水施作時避免過度積料或厚度不均等現象。

Avoid too much materials accumulating or uneven situations before waterproof construction.

- ▲ 滾輪、毛刷再使用前需先溼潤。

Wet rolling wheels and brushes before using.

- ▲ 依氣候、溫溼度狀況，各防水層間須要6~12小時之硬化期，整體工程完工後須48小時或以上之養生期，以利防水層物性。在材料初凝前，拌合器材及施工器具等以清水沖洗即可。

2~4 hours for solidifying among each waterproof layers is necessary depending one different climate and humidity. 48 hours or above resting period after whole construction completed is needed to maintain the physical characters of waterproof layers. Before the initial solidifying, clean mixing tools and working equipments with clear water.



●安全防護注意事項 Safety and Protection Remarks

- ▲ 施工前材料拌合之週邊需做好防護及保護措施，鋪設防護板及帆布等避免污染。拌料時需備放置二空桶承裝滿清水作為人員清洗之用。另一空桶則為清洗攪拌器具及清洗施作工具之用。

Protection measures need to be ready around material mixing place. Wiping protection board and canvas to avoid pollution. Put a barrel with water for washing while mixing material. The other empty barrel is needed for washing stirring and construction staff.

- ▲ 施工中人員儘量穿帶配置適當防護器具，避免材料進入口舌及侵入眼睛內，如有材料著於皮膚或眼睛時請先以大量之清水清洗，再行就醫。避免以肥皂水或其他化學藥劑物質清洗傷口禍患處。

Adaptable protection cloth for construction staff is needed to avoid material invading to mouth or eyes. If material attaches on skin or eyes, please use plenty of water to wash, and then go to hospital. Do not use soap water or other chemical agents to wash wounds.

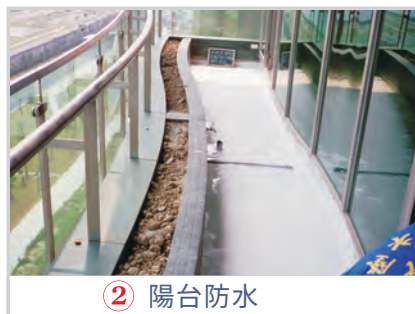
- ▲ 塗料容器等避免隨便棄置。

Avoid throwing away coating containers without concern.



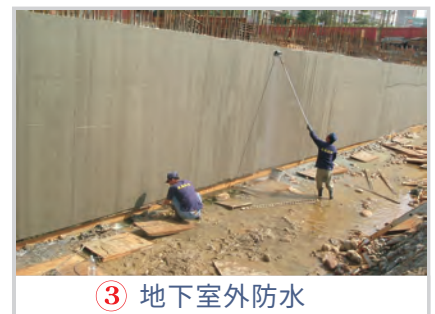
① 室內壁癌防霉處理

Indoor wall cancer mould proof treatment



② 陽台防水

Balcony waterproofing



③ 地下室外防水

Basement outside waterproofing



④ 筏基坑內防水

Raft trough inside waterproofing



⑤ 蓄水池內複合式防水

Reservoir Inside multi-waterproofing



⑥ 電梯機坑內牆

Inside wall of elevator shaped pit

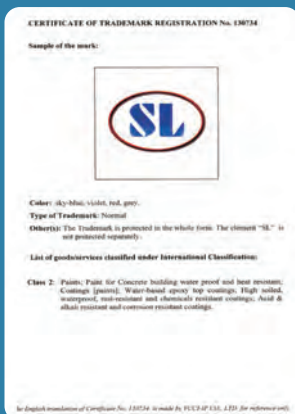
『包裝方式』

5加侖/圓塑桶裝

Note: 本說明書的內容是建立在於真實準確的數據與理念上，供材料使用者參考，由於無法改變控制施作時天候所造成之材料質變等各種不確定因素，所以我們無法負責保證現場施作所得之結果。請詳閱我方所提供之產品說明，我方銷貨條件及有關聲明和建議，都不可用來違反法律規則或侵犯第三者利益。

The content of this manual is created on real and precise statistics and principles as a reference for material users. As some factors can not be made sure such as material qualitative change by different climates, we are not responsible for the result because of different construction conditions. Please read our product instructions, selling conditions and related statements and suggestions, which are not used to violate law rules or to invade the right and advantage of third party.





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