



台灣盛隆建材股份有限公司

Taiwan Shenglong Architecture Material Co., Ltd

www.shenglong.com.tw



SL-300

水性高分子複合式防水塗料



水性塗膜類防水材

HYDROPHILIC COATING MEMBRANE TYPE WATERPROOFING MATERIAL

『產品簡介』 Introduction

SL-300水性高分子複合式防水劑，係以特殊水性丙烯酸酯聚合物為主要成份，為一種不具含任何危害人體的親水性有機質防水材，與水泥基骨材拌合均勻塗佈於施工面，固化成膜後，其強韌的防水層膜面，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，可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。

SL-300 hydrophilic high polymer compound waterproof coating is mainly made of special hydrophilic cyanoacrylate multiple polymers emulsifier. It is a kind of organic compatibility waterproof material which contains no poison. It can be mixed evenly with inorganic cement concrete material to be putted on constructing surfaces. After completing membrane procedure, the strong waterproof layer can reach a perfect and complete waterproof effect even under severe climate. Easy construction procedures can be completed within shortest time. Can work on wet surfaces and reach a high efficient waterproof effect.

『產品特性』 Product Characters

防水性佳 Good waterproof function

防水層柔韌，耐水性佳，成膜後耐水解。具優異不透水性，吸水比低，黏合力強，與水泥基材、混凝土接合後形成一體。

Pliable waterproof layer, good water resistance, hydrolysis resistance after membrane. Good waterproof, low water absorption, good adhesion. Build integrated with cement basic material and concrete after jointing together.

施工性方便 Easy to be worked

水性材質，施工簡易，防水劑與骨材拌合均勻即可塗佈，無特殊要求，潮溼面可施工。

Hydrophilic material, easy to be worked. Painting is available once even mixing of waterproof agent and aggregates. No other special conditions, also can be worked on wet surfaces.

人體安全 No safety concern

本產品系為水性丙烯酸酯共物，無摻合甲苯類無機揮發性溶劑、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，可於飲食用蓄水池的防水，無化學成份殘留…等毒性顧慮。

The product is hydrophilic cyanoacrylate multiple polymers emulsifier, no adding toluene inorganic volatility dissolvent. No safety concern, easy to be worked, no harmful materials such as cyanide, chloride, and heavy metal. It can be used in waterproof of drinkable reservoir, no chemical materials left concern.

接著性強 Good adhesion

SL-300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性質之材質，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。

After SL-300 mixes with aggregates and stirs evenly, it can be sprayed or brushed on working surfaces. Its cement basic material is the same with concrete and cement mortar, so it can attached with structure ground surfaces closely. Stick completed waterproof surfaces to tiles directly is available, no hollowing occurred.

膜體高韌性 Highly flexible membrane

除物性上具有機材料的延展性、無機材料的耐候性外，配合聚酯纖維補強網時，更可展現極佳的抗裂性。

Beside the extension of organic materials, and the weatherproof of inorganic materials, good anti-crack character can be performed once using with polyester fiber strengthening nets.



『產品用途』 Product usage

適用於新建之建築構造物以及防水修繕工程之屋頂、露台、陽台、花台、浴室、蓄水池及外牆等部位之面防水，依各構造設計，可單獨使用或採複合(多重防水)工法施作使用。

It is suitable to work for waterproof of new-building structure and waterproof maintaining construction of roof, balcony, flower balcony, bathroom, reservoir and outside walls. Single and compound (multiple waterproof) constructions are both available.

『物性與性狀』 Physical properties and characteristics

主 成 分 Main materials		水性壓克力系丙烯酸共聚合物 Hydrophilic acrylic cyanoacrylate multiple polymers emulsifier		
外觀 Appearance	非揮發性物質(純樹脂) Non evaporation material (pure resin)	黏度 Adhesion	Ph值 PH value	最低造膜溫度 Lowest membrane temperature
白色乳狀 White cream	>50%	<1000CPS	7.22	5°C

『施工要領』 Working Points

●施工要點 Working Hints

防水層施工前、中、後，需不斷檢討整體之工程目的、防水機能、完整性及防水末端介面…等事項，以利即時調整改進施工之重點與方向，方能營造成功之防水工程。

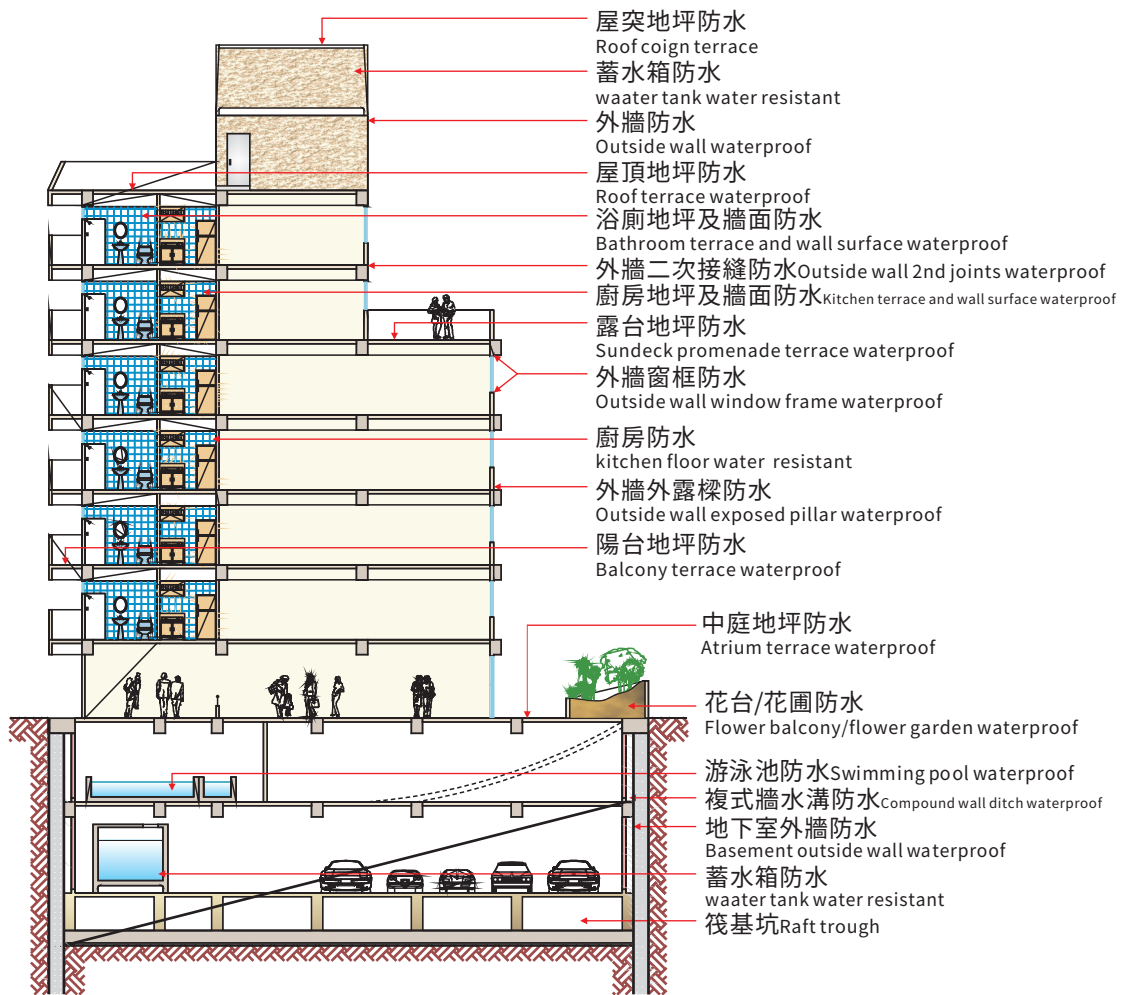
Continuous review on the purpose of the construction, waterproof mechanism,

●素地整理 Ground cleaning

1. 混凝土強度應3000psi以上，不得有起砂，凹凸不平現象。
Concrete intensity should be above 3000psi. Sanding and uneven phenomenon are not allowed.
2. 整體拍漿粉光後應做輕拉毛或粗面處理。
Slight picking or matt finish is necessary after a whole cleaning and flatting procedures.
3. 表面太過光滑應打磨粗糙處理。
Wearing rough process is needed if the surfaces are too smooth.
4. RC澆置完成，應有4週之養生期。
After RC is completed, 4 weeks of keeping period is necessary.
5. 舊有場地如有油污、它種塗料等其他污染物應清除乾淨。
Clean out all greasiness or polluted coating on old places.
6. 表面附著物清除乾淨，灰塵吸淨，裂縫切V槽，封口膠披平。
Clean out attachments on surfaces and also dust. Flat V crack tanks with sealing gel.
7. 於地面與牆面交接處，角隅要抹成圓弧狀，半徑2cm左右。
At the joints between ground and wall, make the corner arc with around 2cm radius.
8. 空鼓、粉化面須先敲除，樹脂砂漿補平，凹槽/孔洞樹脂砂漿補平。
Clean out hollow and chalking surfaces. Flat them with resin mortar which is also applied on concave tanks or holes.
9. 低窪積水處先用樹脂砂漿補平。
Use resin mortar to flatten low-lying water accumulating places. applied on concave tanks or holes.
10. 素地須經拍漿打實，絕對不可撒佈水泥粉，否則須經打磨/打毛處理。
Flatting and strengthening procedures on ground. No spraying cement powder or wearing or rough working is necessary. tanks or holes.



『建築物防水施作位置示意圖』 Building waterproof construction position instruction map



『材料配比』 Material proportion

SL-350水性底漆改質強化劑 SL-350 Hydrophilic base coating material modifying strengthening agent	重量比 Weight proportion	
包裝 Package	SL-350	清水 Clear water
20kg/桶 20kg/barrel	1	3

SL-300水性高分子複合式防水塗料 SL-300 Hydrophilic high polymer compound waterproof coating	重量比 Weight proportion	
包裝 Package	樹脂 Resin	粉體或新鮮水泥 Powder body or Fresh cement
60kg/組 60kg/set	20kg	40kg
		依氣候及素地面加適量不超過5% Add appropriate water depending on different climate and ground situations. No more than 5%.

拌合 Mixing

請依照比率，先將樹脂倒入拌料桶內，再依比率倒入粉體，攪拌均勻即可使用，可以加清水調整工作度，攪拌均勻即可。

Please reference to proportion suggestion. Put resin into to barrels and then put into powder body. Mix well. Clear water is OK for adjusting working levels.

※材料使用量依素地狀況之不同會有所差異。 Different material usage volume depend on different ground situations.

Note: 可使用時間：經混合攪拌完成後，請於30分鐘內用完。
Using time : After finished mixing, use it up within 30 minutes

※單次塗層用量1kg/m²。 Single painting use 1kg/m²

※補強層用量 2.0~3.0kg/m² Strengthening layer use 2.0~3.0kg/m²

※單次塗佈面積 30~60m² Single painting area 30~60m²

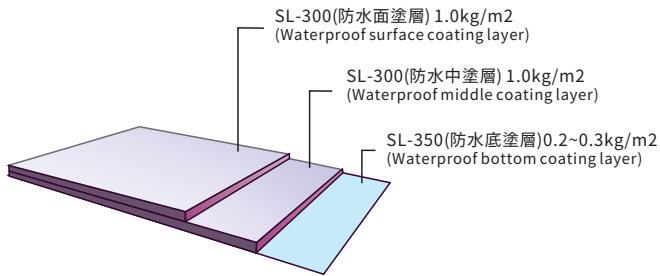


參考工法 Reference Work Methods	SL-A工法(RA-3) SL-A working method (RA-3)	SL-B工法(RB-5) SL-B working method (RB-5)	SL-C工法(RB-8) SL-C working method (RB-8)	FRP工法 FRP working method
屋頂 Roof		○	★	
斜屋頂 Aslope roof	○			
屋凸 Roof coign	○	★		
外牆 Outside wall	○			
窗框 Window frames	○			
樓層接縫 Floor cracks	○			
降版浴缸 Bath		○		★
浴廁 bathroom	○	★		
花台 Flower balcony	△	○		★
花園 Flower garden	△	○		★

參考工法 Reference Work Methods	SL-A工法(RA-3) SL-A working method (RA-3)	SL-B工法(RB-5) SL-B working method (RB-5)	SL-C工法(RB-8) SL-C working method (RB-8)	FRP工法 FRP working method
露台 Sundeck promenade	△	○		
陽台 Balcony	○	★		
廚房 Kitchen	○	★		
營業廚房 Business kitchen	△	○	★	
地下室外牆 Basement outside walls	○			★
水箱/水池 Water tanks/pools	△	○		★
中庭 Atrium		○	★	
游泳池 Swimming Pool		△		○
室內地坪 Inside terrace	○			
筏基坑 Raft trough	△			○

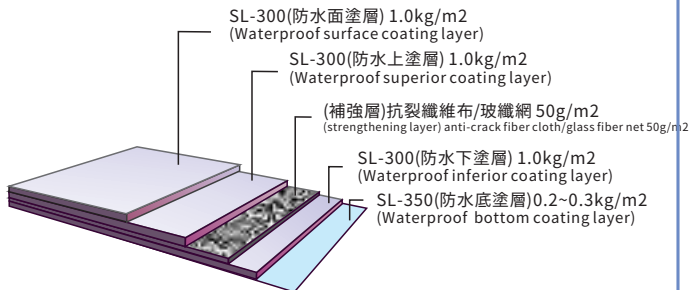
● A工法示意圖(RA-3/RB-3)

A working method sketch map (RA-3/RB-3)



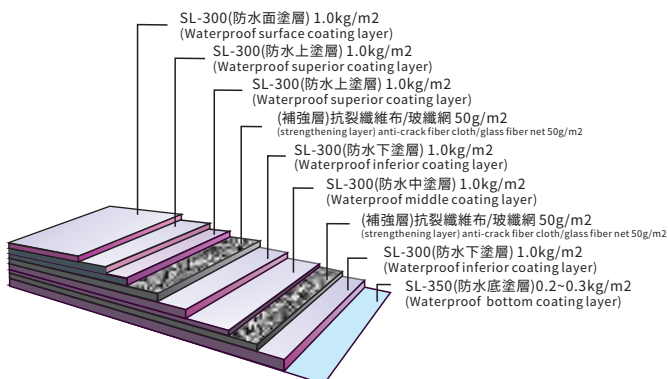
● B工法示意圖(RB-5)

B working method sketch map (RB-5)



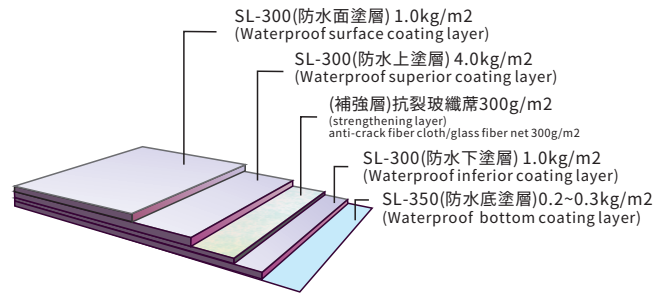
● C工法示意圖(RB-8)

C working method sketch map (RB-8)



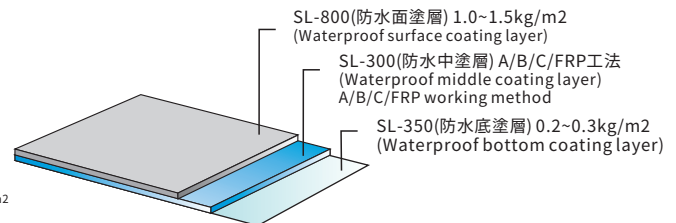
● FRP工法示意圖

FRP working method sketch map



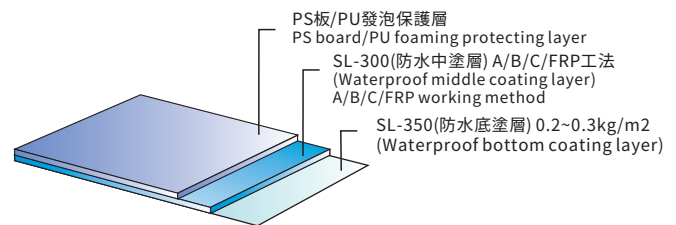
● 外露型工法示意圖

Disclosed working method sketch map



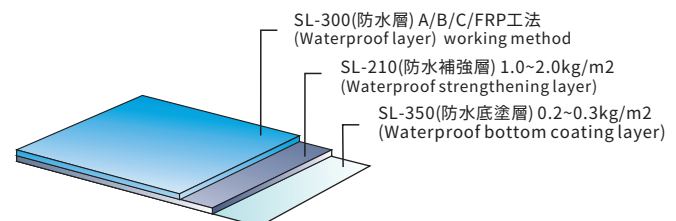
● 地下室外牆防水工法示意圖

Basement outside walls waterproof working method sketch map



● 翻修加強工法示意圖

Rebuilding strengthening working method sketch map



底塗施工 Bottom coating construction

SL-350水性底漆改質強化劑+3倍水稀釋攪拌均勻，塗佈施工面上(素地調整材)。

SL-350 hydrophilic bottom coating quality changing intensifier + 3 time of water to dilute and stir evenly, then put it on working surfaces (ground adjusting materials).

防水施工 Waterproof construction

待底塗初凝硬化後。

After initial solidifying of bottom coating

防水、補強層施工 Waterproof, strengthening layer construction

SL-300水性高分子防水劑+骨材混合攪拌，塗佈於施工面，貼上抗裂玻璃纖維網/玻璃纖維蓆，表面塗佈防水上塗(須將補強層全面覆蓋)。

Mix well SL-300 hydrophilic high polymer waterproof agent + aggregate, and put it on working surfaces. Attach anti-crack glass fiber net/glass fiber mats, put waterproof coating on surfaces (cover all strengthening layers).

防水面塗施工 Waterproof surfaces coating construction

待防水層初凝硬化後，再以SL-300完成防水之面塗層，需將補強網(蓆)全面覆蓋。

After the initial solidifying of waterproof layer completed, finish surfaces layer coating with SL-300. Cover all strengthening layers.

Note : ※以上各工法為基本面的防水層，其他素地狀況、各式節點，偶角、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 work methods are for basic surfaces waterproof layers. For other ground situations such as constructing cracks and waterproof ends of kinds of spots, corners, flat cuts, solid cuts, should put different engineering situations into consideration depends on.

※因要求、場地不同，工法亦有改變，以上僅供參考。

※Working methods will be different depend on different requirements or places. The above are for reference only.

『收邊示意圖』 Sides cleaned out sketch map

落水管-管邊補強 Rainspout-side strengthening



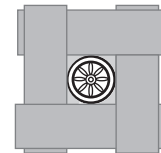
落水管位置
Rainspout location



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

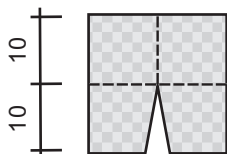


落水管四周
加強一度防水
First waterproof
around rainspout

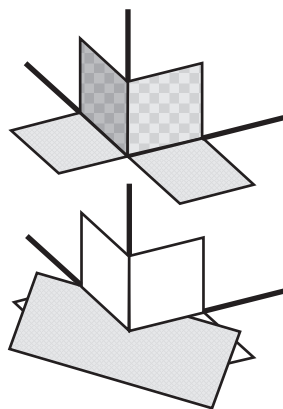


落水管四周
防水加強完成
Waterproof strengthening
work around rainspout is finished

角隅-陽角補強 Outstanding corner strengthening

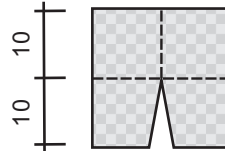


依高度規定剪裁
適當大小為基材
Cut to a suitable size
according to the height
as basic materials

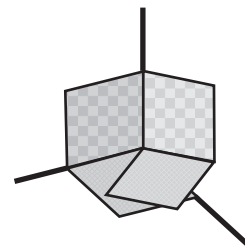


陽角補強完成
Outstanding corner
strengthening work finished.

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

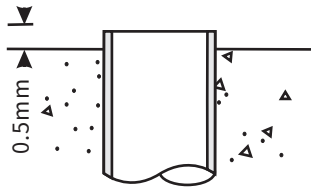


陰角補強完成
Cut to a suitable size
to the height as basic materials

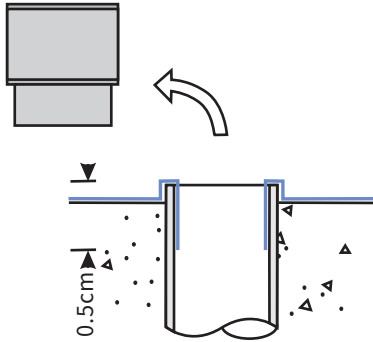


落水管-延伸補強

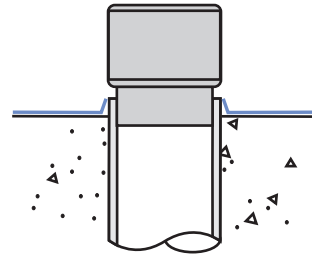
Rainspout-expansion strengthening



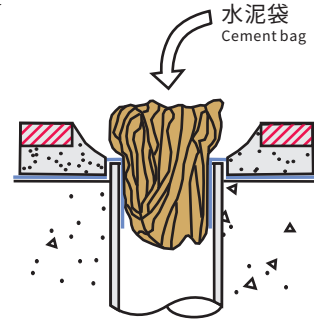
預留高度0.5mm，
超出部分PVC管切除。
0.5mm for preliminary height,
cut PVC hose which is over the height



1. 試水完成確定不漏。
Make sure no leaking occurred after water in test completed.
2. 加強防水層塗佈延伸至落水管內至少5cm。
Strengthening waterproof coating must spread inside rainspout at least 5cm.



1. 施作前先將落水孔以封管管帽或替代填塞物品封塞，避免施工時雜物流入。
Block spout hole with spout hats or other substituted stuff to avoid other stuff in before works.
2. 地坪防水塗佈至管邊。
Terrace waterproof coating works till the side of spout.
3. 試水。
Water in test

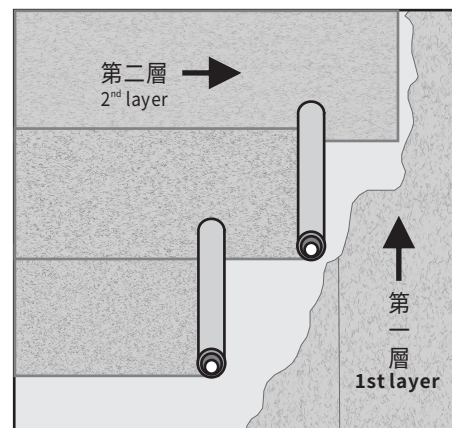
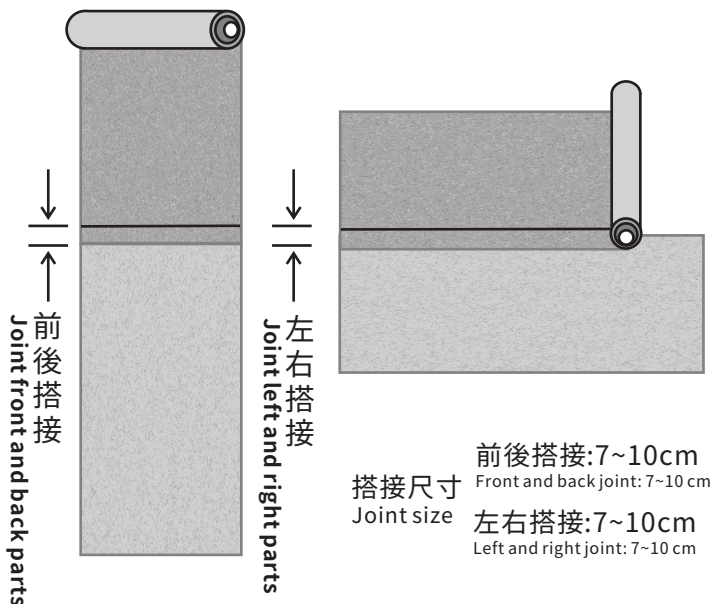


後續工程施作前，落水孔位置以水泥袋封塞，
避免管邊防水層遭硬物扯斷。
Before next work step, block rainspout hole with cement bags
to avoid pulling apart of waterproof layers of the rainspouts.

『搭接示意圖』 Jointing out sketch map

B.C.FRP工法 B.C.FRP working

搭接及鋪貼方向示意圖 Jointing and sticking directions sketch map



五層以上鋪貼方向示意圖
Sketch map for above five layers on laying
and sticking direction



『安全防護注意事項』 Safety and Protection

- ▲ 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.

『使用注意事項』 Usage hints

- 室內外氣溫如在15°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 is necessary is 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。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

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。達到良好之品

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8~12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.

『施工圖』 Construction illustration



降版浴缸防水

Under side of Bath waterproof



露台防水

Sundeck promenade waterproof



屋頂防水

Roof waterproof



窗框.層縫防水

side of window hole waterproof



浴室防水

bathroom waterproof



中庭防水

Atrium waterproof



蓄水池防水

water Tank waterproof



花台防水

Flower balcony waterproof

『包裝方式』 Packaging

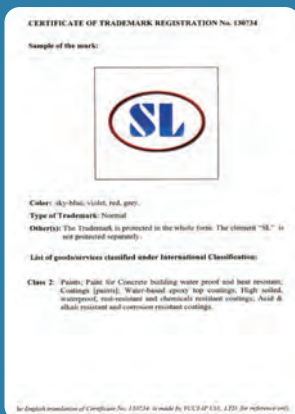
- 20kg/桶(5加侖圓桶裝)
20kg/barrel (5 gallons in round)

- 骨材：20kg/包
Aggregate: 20kg/ pack

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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