



台灣盛隆建材股份有限公司

Taiwan Shenglong Architecture Material Co., Ltd

www.shenglong.com.tw



SL-860(透明)

屋頂用塗膜防水材料 (丙烯酸酯橡膠系)



單液水性塗膜類防水材料

『前言』 Introduction

SL-860屋頂用塗膜防水材(丙烯酸酯橡膠系)，係以特殊水性丙烯酸酯共聚物為主要成分並添加親水性乳膠，為一種不具含任何危害人體的有機高分子防水材，與無機水泥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，在長期嚴峻的氣候影響下，依然可以達到其完整的防水效能。施工迅速簡便。可取代就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-860 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:

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共聚物，無摻合甲苯類有機揮發性溶劑、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-860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-860 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 use

- ▲ 適用於新建之建築構造物以及防水修繕工程之浴廁、廚房、窗框、層縫、外牆、地坪、陽台、花台、浴室、蓄水池及外屋頂、露台..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.)

『**物質與形狀**』 Physical properties and characteristics

主 成 分 Main materials		水性壓克力系丙烯酸共重聚合物乳化劑 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%	<350CPS	7.22	3 °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3000 psi以上，不得有起砂，凹凸不平現象。方能營造成功之防水工程。(Concrete intensity should be above 3000psi. Sanding and uneven phenomenon are not allowed.)

2. 整體拍漿粉光後應做粗面處理。

(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.)

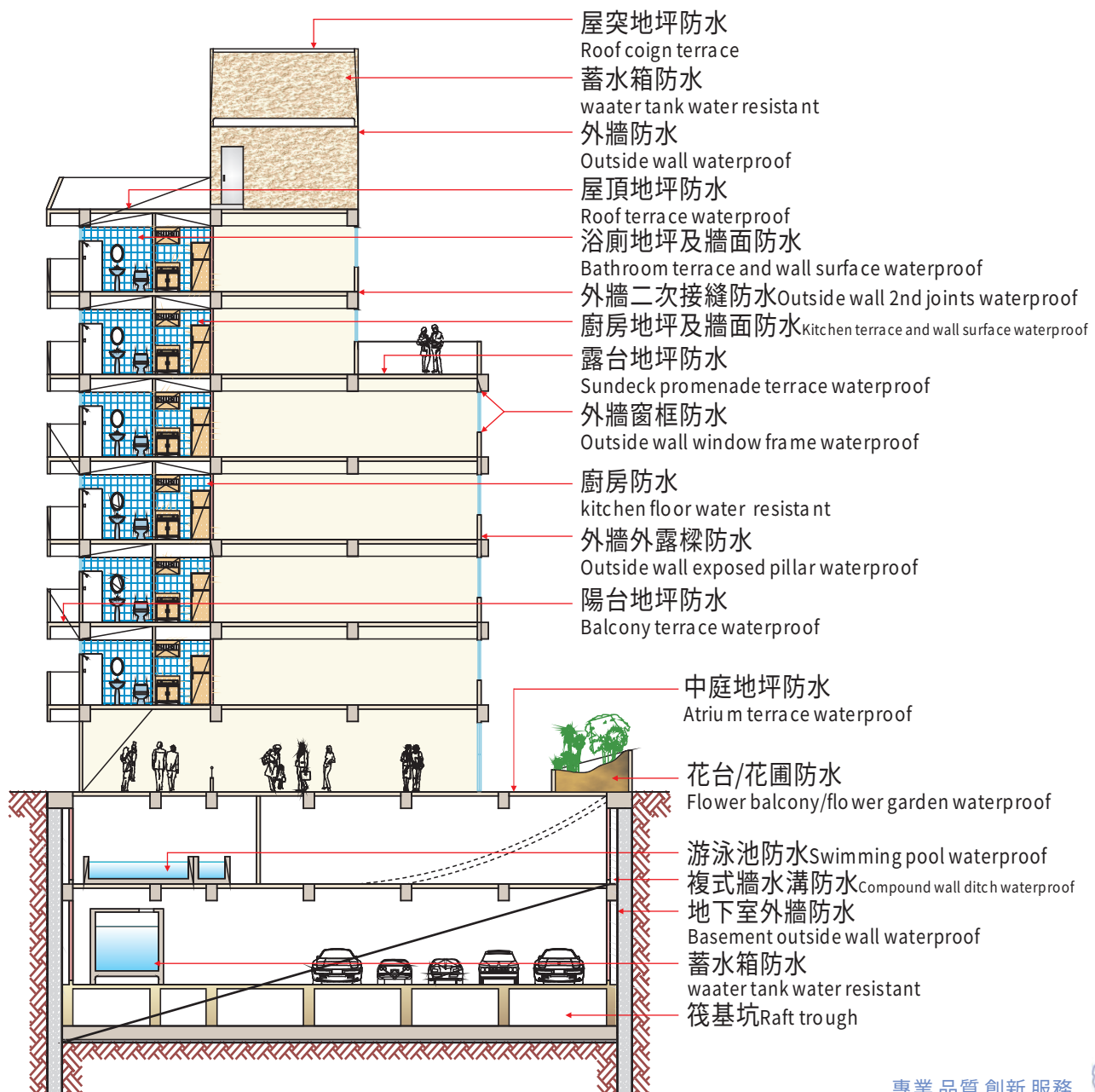
5. 舊有場地如有油污、它種塗料等其他污染物應清除乾淨。

(Clean out all greasiness or polluted coating on old places.)



- 6.表面附著物清除乾淨，灰塵吸淨，管邊及裂縫打V槽，彈性封口膠披平。
(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.)
- 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 sketch map

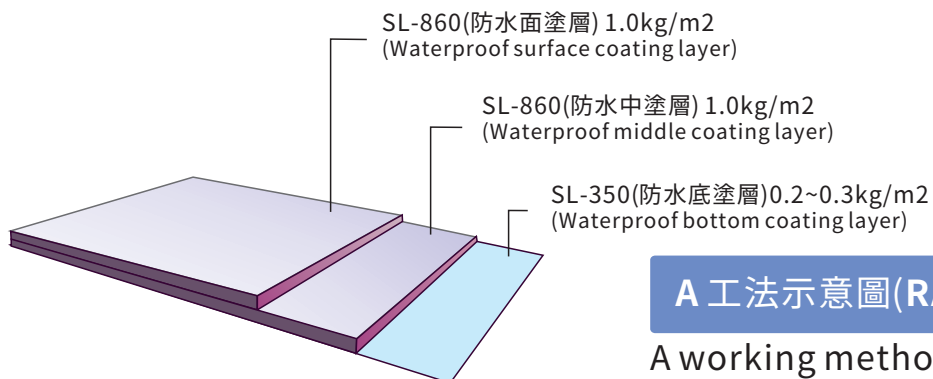


『參考工法』 Reference working methods

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	△	○		☆
花圃 Flower garden	△	○		☆
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	△			○

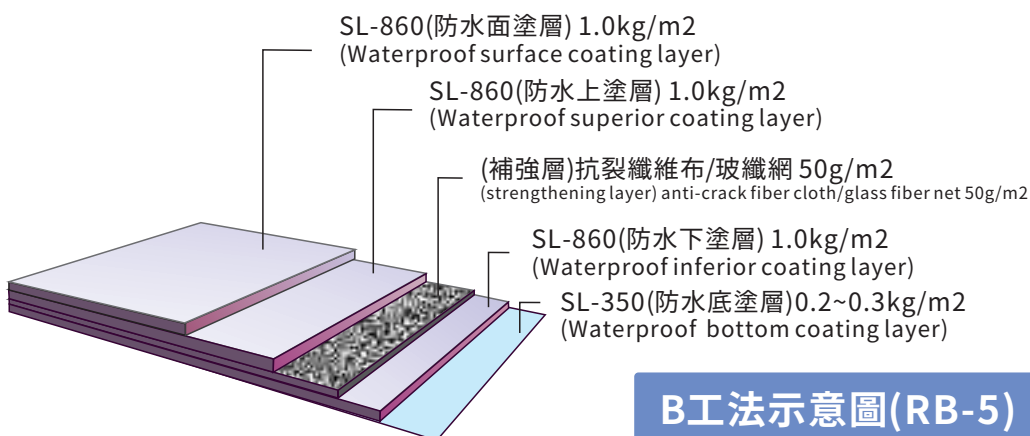
○ 適用 Suitable △ 尚可 OK ☆ 建議工法 Recommended methods





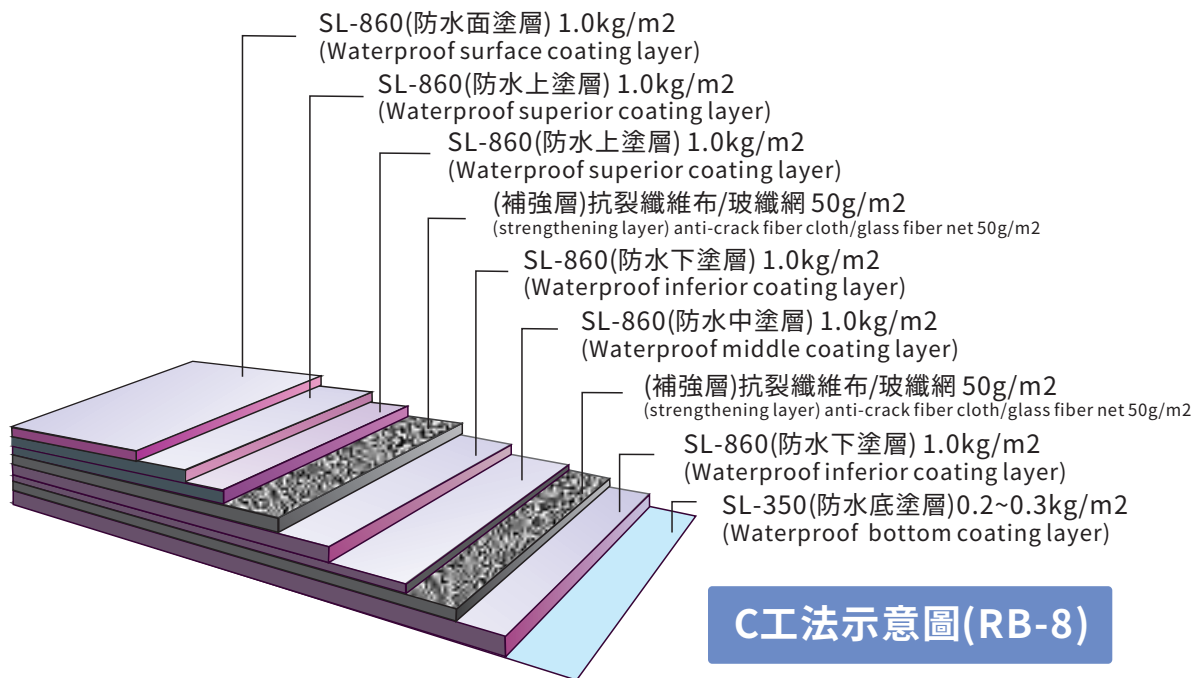
A 工法示意圖(RA-3/RB-3)

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



B 工法示意圖(RB-5)

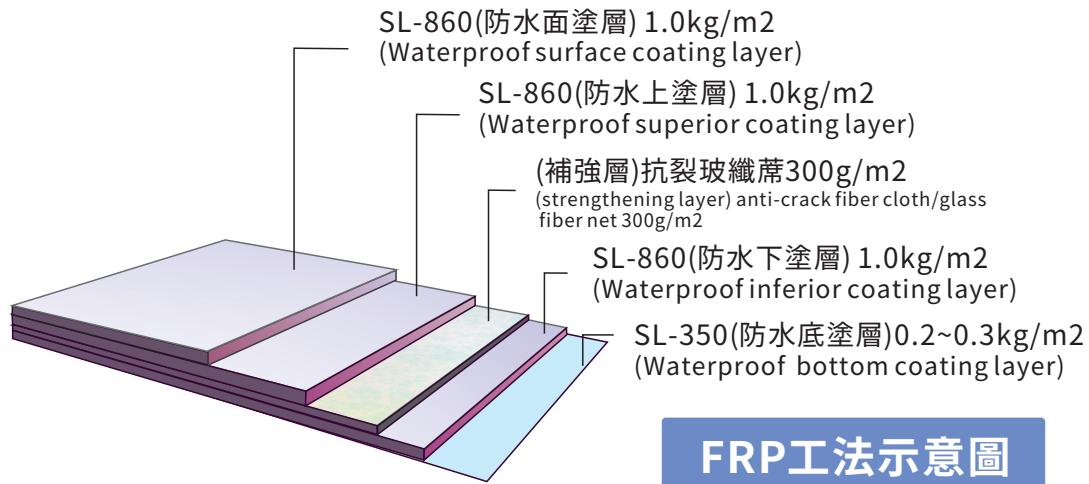
B working method sketch map (RB-5)



C 工法示意圖(RB-8)

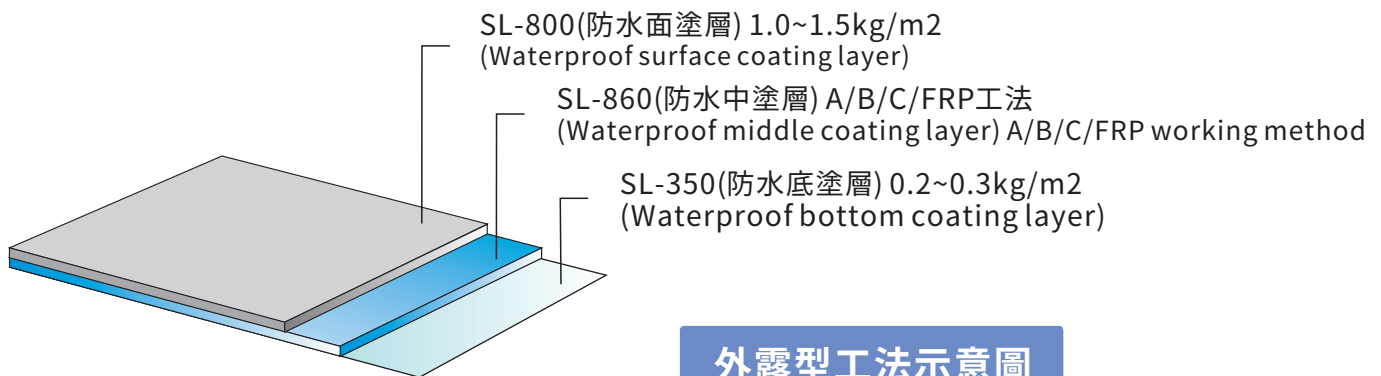
C working method sketch map (RB-8)





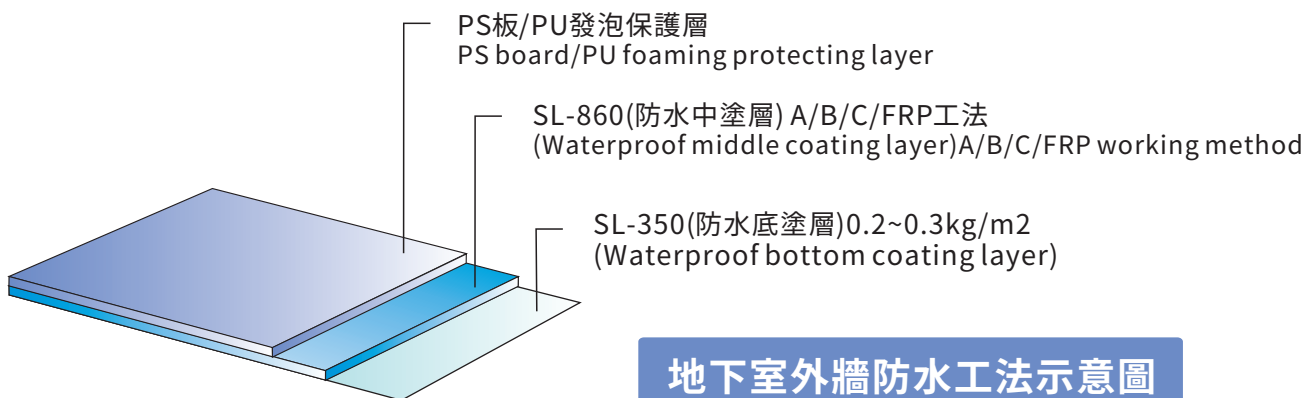
FRP工法示意圖

FRP working method sketch map



外露型工法示意圖

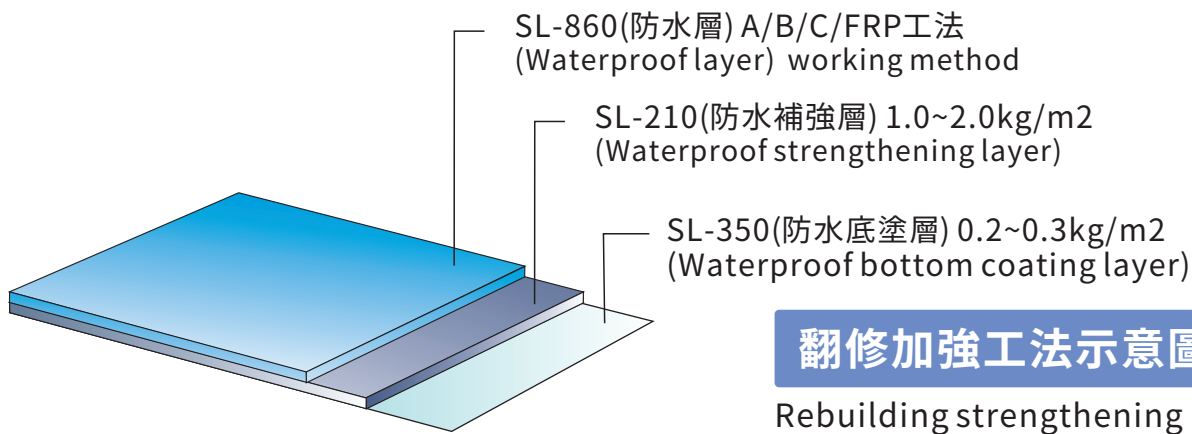
Disclosed working method sketch map



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.

※ 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 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

塗佈式收邊示意圖 / Laying Type sides cleaned out sketch

落水管-管邊補強

Rainspout-side strengthening



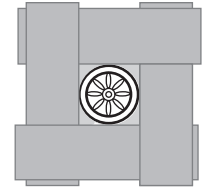
落水管位置
Rainspout location



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



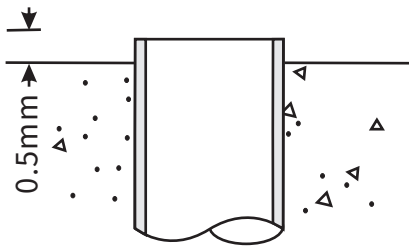
落水管四周
加強一度防水
First waterproof
around rainspout



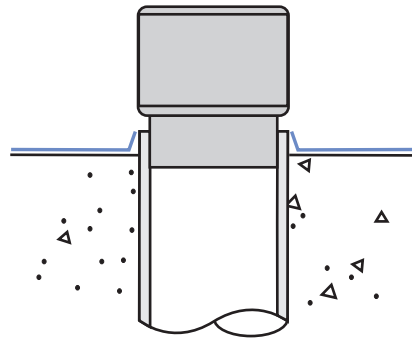
落水管四周
防水加強完成
Waterproof strengthening
work around rainspout is finished

落水管-延伸補強

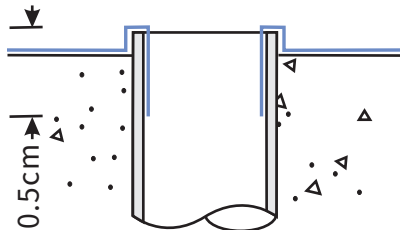
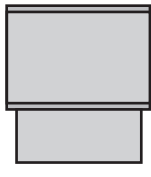
Rainspout-expansion strengthening



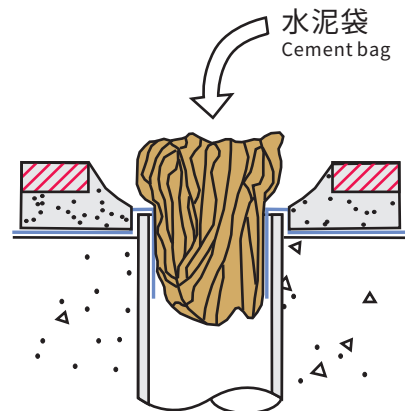
預留高度0.5mm,
超出部分PVC管切除。
0.5mm for preliminary height,
cut PVC hose which is over the height



1. 施作前先将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



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.



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.



『安全防護注意事項』 Safety and Protection

1. 施工前材料拌合之周邊需做好防護及保護措施，鋪設防護板及帆布等避免污染。拌料時需被放置一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。(Protecting measures around the sides of materials mixing before construction is necessary, protecting boards and canvases laying work is suitable for pollution avoiding. A barrel which clear water is in is must while material mixing which is for staff's cleaning. The other barrel with clear water is necessary for cleaning mixing tools or other working tools.)
2. 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，如有材料附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或患處。(To avoid materials invasion into mouth or eyes, please wear protecting suits and accoutrements while working. If materials attach skin or eyes, please clean it with large sum of clear water, and then go to hospital as soon as possible. Soap water or other chemicals to clean wounded parts on body are not allowed.)
3. 塗料容器等避免隨便棄置。(Do not abandon coating containers casually.)

『使用注意事項』 Usage hints

- ! 室內外氣溫如在5°C以下，相對濕度在(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.)
- ! 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 construction.)





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』 Package

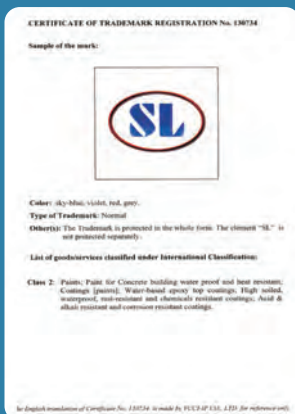
5加侖/圓桶裝 (5 gallons in round barrel)

配比:1:1.5(樹脂:骨材)

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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台灣盛隆 關係企業

台灣總公司(工程部)

台北市信義區基隆路二段115號11樓
TEL:(02)8732-7555
FAX:(02)8732-6677
EM:SL@shenglong.com.tw
www.shenglong.com.tw

上海分公司

上海松江區新橋鎮榮樂東路28號10號樓5樓
TEL:86-21-5186-0079
FAX:86-21-6806-0355
EM:shengchong@shengchong.cc
www.shenglong.cc

台灣三峽廠(建材部)

辦事處: 新北市三峽區大同路286巷26號之1
工廠: 新北市三峽區紫新路30號
TEL:(02)2668-1234
FAX:(02)8672-6426
EM:sheng.long8@shenglong.com.tw
www.shenglong.com.tw

廣州分公司

廣州市天河區廣州大道北路649號之十A23舖
TEL:86-02-8876-5876 / 86-20-8764-5870
BP:137-2809-1795

北京直營店

北京市豐台區南苑路臨106號(和義五金機電城G區13號)
BP:186 0072 2357

惠州直營店

廣東省惠州市河南岸馬庄金湖路134號
BP:159 1942 1928

成都直營店

成都市金牛區九里堤中路41號
BP:159 8282 2171 / 159 0236 5225

合肥直營店

合肥市瑤海區福海新居D樓114室
BP:136 7551 6543

青島直營店

山東省青島市李滄區書院路226號
BP:186 5321 9395

福州直營店

福州市晉安區珠寶路69號
BP:186 5321 9395

