



單液聚氨酯PU防水材

One Component Polyurethane Waterproofing Membrane

單液型聚氨酯PU防水材，為濕氣硬化聚氨酯PU防水材。硬化後形成堅韌的彈性防水塗膜，是一不滲水的最佳屏障。適合以刷塗、滾輪、鏟刀和噴塗等工具施工。

■ 用 途：

- 建築外牆及地基和地下室的防水。
- 屋頂防水及陽台防水。
- 浴室和潮濕地區的夾層防水。
- 植栽、花台區的防水。

■ 特 性：

- 不含煤焦油。
- 單一成分使用方便。
- 可使用刷子、滾輪、鏟刀和噴塗機等工具施工。
- 耐老化、耐龜裂。
- 黏著特性優異。
- 曝露型、夾層型防水工法使用。



One component polyurethane waterproofing material is a moisture-cure waterproofing material.

It cures to form a tough, highly elastomeric and impervious membrane. This product is suitable to apply by rollers, trowels or airless sprays.

■ Usages：

- Waterproofing for external walls and basements.
- Waterproofing for roof and balcony.
- Waterproofing for bathroom or other humidity area.
- Waterproofing for potted plant area.

■ Features：

- Coal tar free.
- One component product, easy to application.
- Can be applied by a brush, a roller, a trowel or a spray.
- Excellent resistance to aging and cracking.
- Excellent adhesion.
- Suitable for internal and external waterproofing application.

■性 質：

試 驗 項 目	測 試 結 果
抗拉強度 (Kgf/cm ²)	20 ↑
撕裂強度 (Kgf/cm)	12 ↑
伸 長 率 (%)	400 ↑
蕭氏 A 型 硬 度	30 ↑
硬 化 時 間	24小時內 (25°C / 相對濕度60)
比 重	1.5 ± 0.02
黏 度 (cP/25°C)	3,000~9,000

註：在25°C和相對濕度50% ± 5下，恆溫恆溼養生七天後測試結果。

■Physical Properties：

<i>Testing items</i>	<i>Results</i>
Tensile strength (Kgf/cm ²)	20 ↑
Tear strength (Kgf/cm)	12 ↑
Elongation (%)	400 ↑
Hardness Shore A	30 ↑
Curing time	In 24 hrs (25°C / 60% RH)
Density	1.5 ± 0.02
Viscosity (cP/25°C)	3,000~9,000

Note: Results are based on the temperature of 25°C; relative humidity is below 50%±5 and allowed to cure on constant temperature and humidity for 7 days.



■ 施工方法：

- 1.新混凝土素地需經28天以上養生期，新水泥粉飾層需14天養生才可鋪設。
- 2.素地表面應保持乾燥潔淨，並將裂縫、凹陷等處先以單液填縫材CP-1007封補，待乾燥後即可施作下一工程。
- 3.最好以鏟刀(滾塗或噴塗)工具施作，需施作兩道達到最佳防水效果。
- 4.單液聚氨酯PU防水材可做局部修補用，施作簡便省時省工。
- 5.曝露型單液PU可上塗TC-101或TC-992系列彩色彈性面漆，以達到耐候、耐UV光、耐久防護及防水美化效果。
- 6.夾層型防水需覆蓋水泥砂漿或貼瓷磚時，須塗以界面底漆再灑上石英砂CC-50或CC-20，隔日塗膜硬化後即可施工覆蓋層。

■ 包 裝：

WP-199綠 & WP-199T
20kg / 圓塑桶

■ Packaging：

WP-199 Green & WP-199T
20kg / plastic pail

■ Application：

- 1.New concrete substrates should be cured for at least 28 days; new cement substrates should be cured for at least 14 days before application.
- 2.Substrates must be clean and dry, patched all cracks or joints with one component sealant material CP-1007. Allowed the sealant dry before next application.
- 3.Applied this material by a trowel, a roller or a spray. Two coats are recommended for the best effective waterproofing membrane.
- 4.One component waterproofing material can be applied to patch the partial defected area on the substrate. It is easy application, labor and time saving.
- 5.TC-101 or TC-992 top coat can be applied to external one component PU waterproofing to achieve the weather and UV resistance, durability and waterproofing.
- 6.If the surface of waterproofing membrane required to cover with cement mortar or tiles, apply a coat of interface coating to the membrane and scatter quartz sand (CC-50 or CC-20). Allow the coating to completely dry and cure before the next application.



曝露型單液PU防水施工剖面圖 *External PU Waterproofing Construction Profile*



夾層型單液PU防水施工剖面圖 *Internal PU Waterproofing Construction Profile*



■ 注意事項：

- 1.不應在潮濕、污染或粉化的水泥素地底層施工。
- 2.溫度低於15°C下，薄膜硬化速度將變慢。
- 3.一次施工不得超過2mm厚，避免產生氣泡鼓起。
- 4.底漆須塗佈1-2次以確實封孔。
- 5.儲存溫度在25°C之間，保存期限為一年。
- 6.噴塗施工應留意遮蔽防護，避免噴濺污染周遭車輛、建物等。

■ Limitation：

- 1.Do not apply to wet, contaminated or friable substrates.
- 2.The curing time will be retarded when temperature is below 15°C.
- 3.Thickness cannot be exceeded 2mm per coat in case to prevent the blister on the surface.
- 4.One or two coats for the primer are recommended to ensure the substrate is completely sealed.
- 5.The storage temperature at 25°C. Shelf life is one year.
- 6.Set and mind the protective work before spraying to avoid polluting vehicles, building, etc.

■工程實例 Reference :



國立中正大學文學院 *National Chung Cheng University*

屋頂露台單液PU防水
Waterproofing for roofs and balconies

酒店新館 *Hotel*

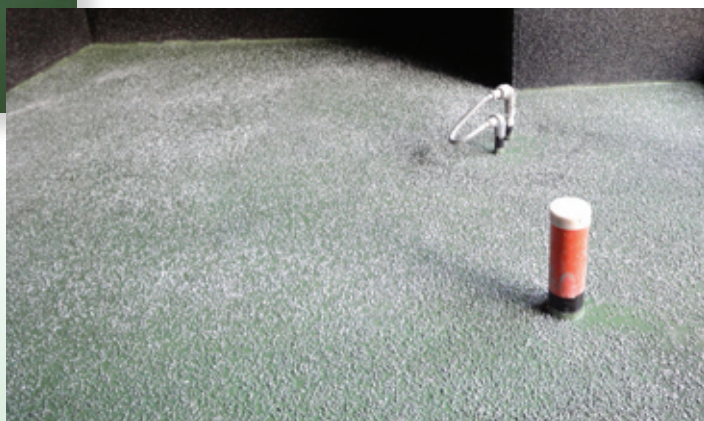
客房衛浴單液PU防水120間
Waterproofing for bathrooms



第一層防水層塗佈
Waterproofing application
for the first layer



素地整理打底
Surface preparation and priming



第二層防水層塗佈+撒佈骨材
Waterproofing application with granules for the second layer

單液防水漆 TC-101

One Component Polyurethane Waterproof Coating

TC-101防水漆系列為單液型不黃變聚氨基甲酸酯彈性防水，是高彈性密度的鏈結結構，具有防水、耐紫外線、耐候、不黃變等特性，是長效性的彈性防水、耐候防熱、外牆美化之高級塗佈材料，為屋頂和外牆防水塗佈專用的不垂滴型彈性防水漆，合適滾塗、刷塗及噴塗施工作業。

TC-101 is a non-yellowing, high elasticity and chain structure polyurethane waterproofing coating. This product has waterproofing, wear and weather resistance characteristics. TC-101 is a long-lasting waterproof, aesthetic high quality coating material. This product is suitable for all types of external wall where waterproofing and non-sagging are required. It can be applied by rollers, brushes or airless spray equipments.

■用 途：

- 1.室內外彈性牆用防水漆。
- 2.室外牆用防水防熱漆。
- 3.屋頂烤漆浪板彈性防水防熱漆。
- 4.女兒牆面彈性防水防熱漆。
- 5.外牆模樣塗料之耐候防汙防水漆。
- 6.防止水泥牆面粉化、老化、劣化、中性化之機能性塗料。

■特 性：

- 1.具彈性、柔韌性、抗龜裂。
- 2.具高度密著性、防水性、耐酸雨污損性。
- 3.具防止紫外線劣化、防熱性能優異。
- 4.反應緩和、施工容易。
- 5.耐候、耐老化、不黃變、為長效性塗料。
- 6.防止裂紋、龜裂狀滲透、可修復彌封龜裂狀牆面之防水。

■Usages：

1. Waterproofing coating for indoor and outdoor walls.
2. Waterproofing and heat-proofing coating for external walls.
3. Waterproofing and heat-proofing coating for roofs and paint job corrugated steel sheets.
4. Waterproofing and heat-proofing coating for parapet walls.
5. Waterproofing coating for weather and dirt resistance of external wall.
6. Aging resistance to concrete.

■Features：

1. Excellent elasticity, flexibility, high elongation and anti-cracking.
2. Excellent adhesion, waterproofing and acid rain resistance.
3. Excellent UV resistance.
4. Easy application.
5. Excellent weather and aging resistance.
6. Preventing and repair cracking of wall.

■性 質：

固 成 份	72% ↑
黏 度	1,000~3,000 cP/25°C
60° 光 澤	65~85 GU (亮光)
耐 候 性	不黃變
耐 化 學 性	耐酸、鹼、鹽
	耐溶劑
	耐鹽霧
可操作時間	3小時以上 / 25°C
指 觸 乾 燥	3小時以內 / 25°C
完 全 硬 化	7天 / 25°C
塗 裝 間 隔	6小時以上 / 25°C
塗 佈 量	0.3kg/m ² (200μm · 一道塗佈)
塗 佈 方 式	滾塗、刷塗、噴塗

註：在25°C和相對濕度50% ± 5下，
恆溫恆溼養生七天後測試結果。

■Physical properties：

<i>Solid content</i>	72% ↑
<i>Viscosity</i>	1,000~3,000 cP/25°C
<i>60° Gloss</i>	65~85 GU (Glossy)
<i>Weather resistance</i>	Non-yellowing
<i>Chemical resistance</i>	Acid,alkali and salt resistance
	Solvent resistance
	Salt-fog resistance
<i>Working time</i>	3 hrs ↑ / 25°C
<i>Tack free time</i>	3 hrs ↓ / 25°C
<i>Full cure</i>	7 days / 25°C
<i>Recoat interval</i>	6 hrs ↑ / 25°C
<i>Coverage</i>	0.3kg/m ² (200μm · One coat)
<i>Application</i>	Roller, brush and spray

Note: Results are based on the temperature of 25°C; relative humidity is below 50%±5 and allowed to cure on constant temperature and humidity for 7 days.



■包 裝：

TC-101....20kg / 圓塑桶 (10kg x 2)

■Packaging：

TC-101....20kg / Plastic pail (10kg x 2)

■ 注意事項：

- 1.不應在潮濕、污染、粉化的PU防水材或水泥素地底層施工，必要時需上塗界面底漆。
- 2.溫度低於15℃，濕度低於50%時，薄膜硬化速度將變慢。
- 3.TC-101塗佈一道施工不得超過1mm厚，避免產生氣泡鼓起。
- 4.實際塗佈量視施工方式、環境條件及被塗物表面狀況而定。
- 5.儲存在25℃之間，保存期限為一年。
- 6.噴塗施工應留意遮蔽防護，避免噴濺污染周遭車輛、建物等。

■ 工程實例：

台南大賣場屋頂防水隔熱工程

■ Packaging：

- 1.Do not apply to wet, contaminated or friable substrates. Applying to primer for interface, if necessary.
- 2.The temperature below 15°C will retard the curing.
- 3.Thickness cannot be exceeded 1mm per coat in case to prevent the blister on the surface.
- 4.The coverage will depend on the condition of the surface.
- 5.The storage temperature at 25°C. Shelf life is one year.
- 6.Set and mind the protective work before spraying to avoid polluting vehicles, building, etc.

■ Reference：

Tainan Wholesale Corporation
Roof Waterproofing and Insulation



慶泰樹脂化學股份有限公司
CHINGTAI RESINS CHEMICAL CO., LTD.

總公司：437105台中市大甲區工二路50號
No.50, Gong 2nd Rd., Dajia Dist., Taichung City 437, Taiwan (R.O.C.)
洽詢專線：04-26816835 FAX：04-26811329・26811361

網址：<http://www.chingtai-resins.com.tw/>

E - Mail：service@chingtai-resins.com.tw

台北營業所：02-22392356 FAX：02-22392357

高雄營業所：07-7928866 FAX：07-7920707