

# 混合型聚脲防水膜 (綠建材) ( Hybrid ) Polyurea Waterproofing membrane (Green Label)

# 319G

聚脲 / Polyurea



## 聚脲 319G

聚脲 319 G 是兩組份 100% 固體，無揮發性有機化合物，聚脲彈性體，在各種嚴酷的施工情況中表現出卓越的性能。這種彈性體對幾種不同的底材表現出極快的固化時間和超強的黏附特性。

聚脲 319 G 不含催化劑，可在 +5°C 至 +40°C 的溫度下應用，這種 100% 聚脲彈性體具有優異的耐化學性、防水性及能在高溫和低溫下保持穩定性。

## 特徵

1. 高靈活性
2. 無滑塗層
3. 防水
4. 快速固化
5. 音效減震
6. 100% 固體，無揮發性有機物
7. 無溶劑
8. 在各種施工面上具有優異的附著力

## Polyurea 319G

Polyurea 319 G is a two component 100% solids, no VOCs, polyurea elastomer that exhibits superior performance in a variety of harsh industrial applications. This elastomer displays extremely fast cure times and excellent adhesion characteristics to several different substrates.

Polyurea 319 G contains no catalyst and be applied at temperatures ranging from +5°C to +40°C, this 100 % polyurea elastomer display excellent chemical resistance, water insensitivity and stability at high and low temperatures.

## Features

1. High flexibility
2. Great nonskid coating
3. Waterproof
4. Fast cure
5. Sound dampening
6. 100% solids, VOC free
7. No solvents
8. Excellent adhesion on various substrates

## Instructions

### Some application sample

Waterproofing for concrete tanks, lagoons, reservoirs, tunnels  
Waterproofing for roof gardens and inverted roofs  
Heavy duty, permanently elastic coating for marine docks, pillars, decks and engine compartments.

### Directions for Use

Follow the reactor spray equipment start up-procedure Make sure surface is free from dirt, dust, oil or other contaminants. Clean with acetone or other quality wax and grease remover. Wire tape and mask. Test spray surface for compatibility. Spray first coat and apply second coat in the opposite direction (cross-hatch technique)

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## 使用方法

### 應用範圍

混凝土水缸、瀉湖、水庫、隧道的防水  
屋頂花園和屋頂的防水  
重型、永久彈性塗層，適用於船塢、柱子、甲板和發動機艙。

### 施工程序

使用高壓噴料機的開啟程序。確保施工表面沒有污垢、灰塵、機油或其他污染物。用丙酮或其他優質蠟和油脂去除劑清潔。配帶膠帶和面罩。檢查需噴塗表面的相容性。噴塗第一塗層，並在相反方向噴塗第二層塗層（交叉方向施工）

#### 1. 預備工序

聚脲 319G 必須應用於混凝土、英泥沙批盪層或其他陶瓷基板上。施工面應乾燥、清潔、無油、無油脂和其他可輕易移除的污染物。

#### 2. 底層

塗上底油 308G，兩組分環氧樹脂，用 0.5 號石英沙平均灑在表面。

#### 3. 噴塗應用

使用高溫高壓噴塗機噴塗聚脲 319G 防水膜。

#### 4. 面油

聚脲 319G 經紫外線照射後可能出現變黃 / 白化改變。塗上面油 119，能實現均勻的色彩表面。石英也可以灑到未乾的面油表面加強防滑性。

### 用量

聚脲 319G 的消耗取決於施工面的粗糙度。光滑表面的理論消耗量以 2mm 厚度計算約為 2.2kg/m<sup>2</sup>。如果表面較粗糙，消耗量增加。如果施工面嚴重損壞，我們建議應先用合適的修補方法加以修補。

## 效能

### 產品應用資料 (A+B)

A/B 比率 (體積比): 100/100

凝固時間在 +70°C (秒): <15

對行人開放,分鐘: ≥30

#### 1.Preparation

Polyurea 319 G must be applied onto sound concrete, screed or similarly supportive ceramic substrate. The substrate should be dry, clean, free of oil, grease and other removable contaminants.

#### 2.Priming

Apply a coat of Primer 308 G, two-component epoxy primer and sprinkle the surface with Quartz 0.5.

#### 3.Spray application

To apply the Polyurea 319 G membrane, use a high pressure heated spraying system.

#### 4.Top coat

Polyurea 319 G may have some yellow and chalk with exposures to UV light. It can be over coated with Topcoat 119 to achieve a uniform colour surface. Quartz can also be broadcasted onto tacky top coat to improve the slip resistance.

### Consumption

The consumption of Polyurea 319 G depends on the roughness of the substrate. The theoretical consumption for a smooth surface is around 2.2kg/m<sup>2</sup> every 2mm of thickness. If the surfaces are rougher, consumption increases. If the substrate is seriously damaged, we are recommend applying a suitable skimming coat.

## Properties

### Application data of product (A+B) :

A/B ratio (by volume): 100/100

Gel time at +70°C (seconds): <15

Open to foot traffic, min: ≥30

Ambient application temperature: From +5°C to +40°C

Tensile strength (N/mm<sup>2</sup>)(ASTM D412): ≥140

Elongation (%) (ASTM D412): ≥350

Tear strength (N/mm) (ASTM D624): ≥60

Hardness shore D (ASTM D2240): ≥40

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環境應用溫度：從 +5°C 到 +40°C

抗拉強度 (N/mm<sup>2</sup>)(ASTM D412): ≥140

拉伸強度 (%) (ASTM D412): ≥350

撕裂強度 (N/mm)(ASTM D624): ≥60

硬度性 D (ASTM D2240): ≥40

## 注意事項

### 清洗

由於聚脲 318G 的黏結強度極高，我們建議在聚脲材料未乾固前使用溶劑石腦油清潔施工工具。硬化后，只能用機械工具進行清潔工具。

### 限制

聚脲 318G 是一種芳香族聚脲。雖然物理特性可能不會受到影響，但彈性體可能會與紫外線接觸時變黃和白化。強烈建議對需要顏色穩定性要求高的任何應用使用深色材料。

### 警告

儘管本產品數據表中包含的技術細節和建議符合我們的知識和經驗，但在任何情況下，上述所有資訊都必須僅視為指示性資訊，並在長期實際應用后得到確認；因此，任何打算使用該產品的人必須事先確保它適合應用。在每種情況下，使用者本身對因使用產品而產生的任何後果承擔全部責任。

## 包裝

### 儲存和處理

聚脲 318 G 對水份敏感。將聚脲素保存在封閉的容器中。在施工應用前攪拌固化劑 (A 部分)。儲存在 20-30°C 之間，聚脲 318G 的保質期為 12 個月。

### 淨重

200 公斤 +100 公斤

## 地址

H.C.M. 貿易公司

新界建旺街 4 號利通工業大廈 12 樓 3 室

WhatsApp: 9535 0688

Fax: 2399 0957

## Precautions

### Cleaning

Because of the high bond strength of Polyurea 318 G, we are recommend cleaning tools with solvent naphtha before the product starts to set. Once hardened, cleaning may only be carried out mechanically.

### Limitations

Polyurea 318 G is an aromatic polyurea. While the physical properties may not be affected, the elastomer could yellow and chalk with exposures to UV light.

It is highly recommended to use dark colour for any applications requiring colour stability.

### Warning

It is dangerous to approach the application sites with fire. Fresh air should be circulated in the storage and the application sites. During the application, a protective apparel, protective gloves, goggles and masks which comply with the Occupational Health and Safety Rules should be used. Due to the irritation effect of the uncured materials, the mixture should not come into contact with skin and eyes; in case of a contact, the affected area should be washed with plenty of water and soap; in case of swallowing, a physician should be consulted immediately. No food or beverages should be brought to the application area. The product should be stored and kept out of reach of children.

## Package

### Storage and handling

Polyurea 318 G are sensitive to moisture. Keep polyurea components in closed containers. Mix amine resin (Part A) before application. Store polyurea components between 20-30°C, the shelf life of Polyurea 318 G is 12 months.

### Net weight

200 kg +100 kg

## Address

H.C.M. Trading Company

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