

One Component Water-based Highly Weather-resistant Acrylic Silicone Resin Paint  
 單組份水性高耐候丙烯酸矽樹脂漆

## Water-based Fine Coat Silicone Series

### 水性細塗矽膠系列

**Water-based Fine Coat Silicone**

水性有機矽細塗層

**Water-based Fine Coat Silicone Elasticity**

水性彈性有機矽細塗層

**Water-based Fine Coat Silicone Heat Shield**

水性隔熱有機矽細塗層

**BASF joint development Contains Tinuvin**

Exclusive resin adoption

與巴斯夫共同開發採用Tinuvin獨家樹脂

**B A S F 共 同 開 發**

**Tinuvin®(チヌビン)配合**

**専 用 樹 脂 採 用**

高耐久性光安定剤

Tinuvin® 配合

**□・BASF**

We create chemistry

® = BASF SEの登録商標

# Water-based Fine Coat Silicone

Co-developed with BASF, Germany's largest chemical manufacturer, to achieve unprecedented durability.

與德國最大化學品製造商巴斯夫共同開發實現前所未有的耐用性。

Buildings are protected by paint applied to the exterior walls (mortar, concrete, siding, etc.). However, as it continues to be affected by ultraviolet rays, rainwater, and wind-borne objects, radicals that cause deterioration are generated in the paint film, accelerating the deterioration of the paint film and gradually reducing its effectiveness in protecting the building. It will continue to decline.

建築物受到外牆塗料 (砂漿, 混凝土, 壁板等) 的保護。但隨著不斷受到紫外線, 雨水, 風載物的影響, 漆膜中會產生引起劣化的自由基, 加速漆膜的劣化, 逐漸降低其功效。在保護建築物方面, 它牆繼續下降。

In recent years, the use of paints containing light stabilizers (HALS) which are effective in suppressing radicals, has been increasing in order to extend the repainting cycle of buildings and reduce running costs.

近年來, 為了延長建築物的重塗週期並降低運行成本, 含有有效抑制自由基的光穩定劑 (HALS) 的塗料的使用斷增加。

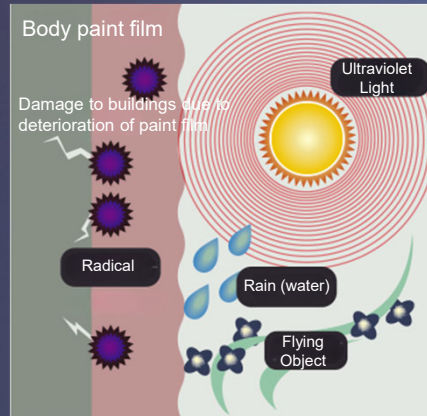


## Living environment

More comfortable and longer keep.

生活環境更舒適並保更長時間。

Mechanism that causes paint film deterioration 造成漆膜劣化的機制



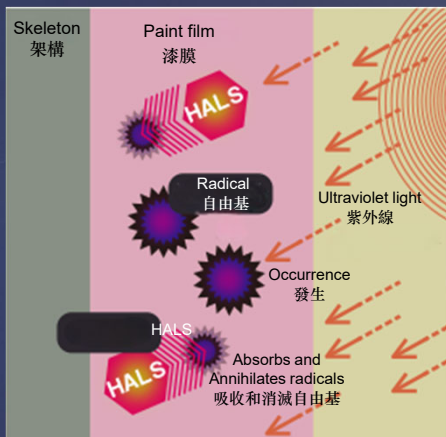
[Jointly developed with BASF] We jointly developed a special resin containing the highly durable light stabilizer "Tinuvin" from BASF, one of the world's leading comprehensive chemical manufactures. We applied technology used in cars, siding, and space suit helmets to architectural paints.

[與巴斯夫共同開發] 我們與全球領先的綜合化學品製造商之一的巴斯夫共同開發了一種含有高耐久性光穩定劑「Tinuvin」的特殊樹脂。我們將汽車, 壁板和太空衣頭盔中使用的技術應用於建築塗料。

"Water-based Fine Coat Silicone" is a high quality product from BASF that has a large market share in applications that require high durability, such as automotive paint and siding in order to ensure a comfortable living environment for every one and maintain the beauty of buildings for a long time. We have adopted the durable light stabilizer "Tinuvin".

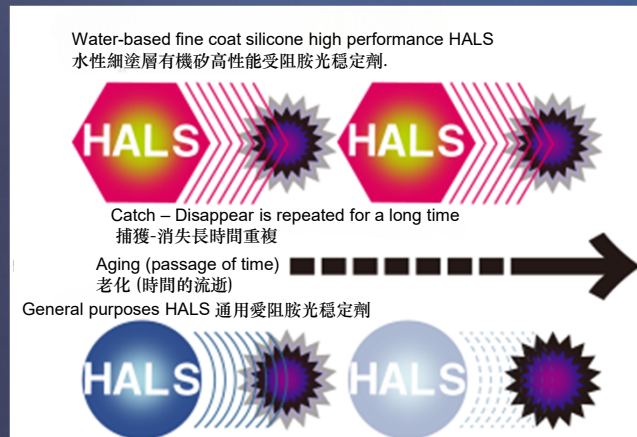
「水性精細塗層有機矽, 是巴斯夫的高品質產品, 在需要高耐用性的應用中擁有很大的市場份額, 例如汽車油漆和壁板, 以確保每個人都有舒適的生活環境並保持美觀。建築物很長一段時間, 我們採用了耐用的光穩定劑 "Tinuvin"。

Point 1 [Catch] 要點1 [捕捉]



HALS removes radicals (degradation factors) generated by ultraviolet rays. (Light stabilizer) is absorbed and disappears. HALS 可去除紫外線產生的自由基 (降解因子)。 (光穩定劑) 被吸收並消失。

Point 2 [Maintain for a long time] 要點2 [長期保養]



The high-performance HALS used in water-based fine coat silicone loses less over time than conventional general-purpose HALS, so it can maintain the ability to catch and eliminate radicals for a long period of time. 用於水性精細塗層有機矽的高性能受阻胺穩定劑(HALS)比傳統通用型產品的長期損失更少HALS, 因此可以長時間保持捕捉和消除自由基的能力。

# Expected service life: 12-16 years. It is possible to extend the repainting cycle!

預計使用壽命: 12-16年. 可以延長重漆週期

## Feature of water-based fine coat silicone 水性細塗矽膠的特點

### High weather resistance 高耐候性

A strong coating film with high weather resistance protects buildings for a long time.

堅固的塗膜具有高耐候性, 可長期保護建築物。

### Low contamination 低污染

Since it is a hydrophilic coating film, even if dirt adheres to it, it will be gradually washed away by rainwater, demonstrating a high level of low pollution.

由於是親水性塗膜, 即使附著污垢, 也會被雨水逐漸沖走, 表現出高水準的低污染性。

### Anti-algae and anti-mold effect 抗綠藻防霉作用

Prevents the growth of algae and mold, which can affect the health of residents, and maintains a safe and comfortable space.

防止影響住戶健康的藻類和霉菌生長, 並維護安全舒適的空間。

### Selectable gloss 可選擇光澤度

You can choose from glossy, semi-gloss, 3-minute gloss and matte.

您可以選擇光澤, 7分光澤, 半光澤, 3分光澤和啞光。

### Moisture permeability 透濕性

It has moisture permeability. 具有透濕性。

## Core-shell structure is effective 有效核殼結構

A resin structure that combines the best features of soft and hard resin components

結合了軟質和硬質樹脂成分最佳特性的樹脂結構。

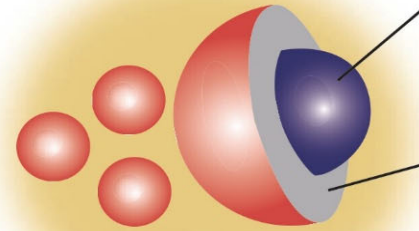
Soft resin component (inside)  
軟質樹脂成分(內部)

: Because it's soft resin to resin.

因為它是軟樹脂

It sticks together without any gaps

它黏在一起, 無需任何間隙



Hard resin component (outside)  
硬質樹脂成分(外側)

: Because it is hard

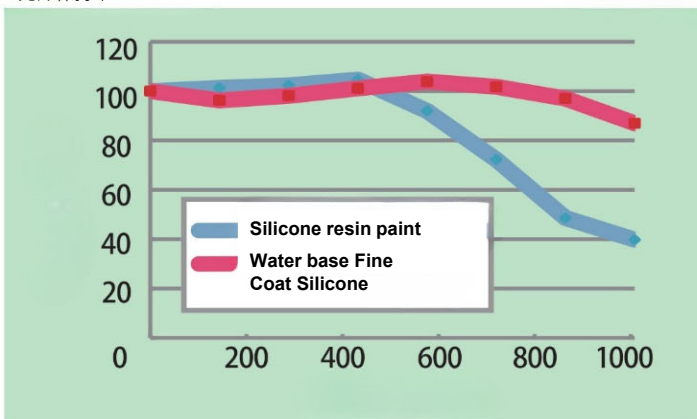
Dirt is difficult to adhere to.

因為較硬, 所以難以附著污垢。

## Silicone concentration increased by 4 times 有機矽濃度增加倍

<Gloss retention rate>

<光澤保持率>



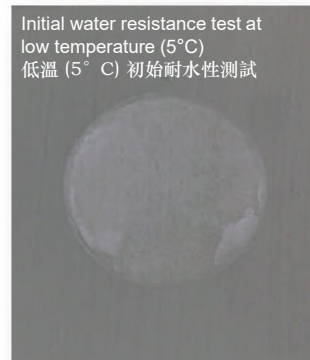
Significantly increases silicon concentration. It forms a denser and tougher paint film, exhibits water resistance that is resistant to UV rays, and prevents dirt from adhering.

顯著增加矽濃度。它形成更緻密, 更堅韌的漆膜, 具有抗紫外線的防水性, 並防止污垢黏附。

## Improved initial water resistance 提高初始耐水性

A general-purpose paint and a water-based fine coat silicone were applied at a temperature of 5°C, and after being allowed to stand for 5 hours, water was dripped onto the surface in spots and allowed to stand for 24 hours to compare the surface conditions. Water-based fine coat silicone does not whiten. It is clear that there is no abnormality.

在5°C的溫度下塗裝通用塗料和水性細塗矽膠, 靜置5小時後, 將水點滴到表面上, 靜置24小時進行比較表面條件。水性細塗層矽膠不會變白。很明顯沒有任何異常。



General purpose paint  
通用油漆



Water-based fine coat silicone

\*The expected service life is a guideline for repainting and does not guarantee the durability of the paint film. Weather and building structure can cause deterioration, which can be observed as reduced gloss, discoloration, chalking, cracking, peeling, and blistering. The mid-term stage includes cracking, peeling, blistering, and lifting from the base. The final stage shows cracking, peeling, lifting, and efflorescence throughout the paint film. Repainting is recommended based on the stage of deterioration.

預期使用壽命是重新粉刷的指南, 並不保證塗層的耐用性, 塗層的耐用性主要受天氣因素和建築結構影響。在早期階段, 可以觀察到塗層表面的劣化, 例如光澤減少, 變色, 粉化以及面層龜裂, 剝落和起皮。在中期階段, 塗層劣化的跡象包括龜裂, 剝落, 脫落, 起皮以及與基層的脫離。在最後階段, 整個塗層, 包括基層, 都可以看到龜裂, 剝落, 脫離和風化現象。根據塗層劣化的階段, 早期和中期階段被劃分為重新粉刷的指南年限。

1-component water-based fine coat silicone elasticity  
單組份水性精細塗層有機矽彈性

## Water-based fine coat silicone elasticity

Can be used as a top coat for waterproof multi-layer coating materials

可用作防水多層的面漆

Water-based fine coat silicone gives elasticity. Suitable as a top coat for waterproof multi-layer coating material E. 水性精細塗層有機矽賦予彈性。適合作為防水多層塗料E的面漆。

1-component water-based highly weather-resistant acrylic silicone resin-based high solar reflectance paint for exterior walls  
單組份水性高耐候丙烯酸矽樹脂基高太陽反射率外牆塗料

## Water-based fine coat silicone heat shield

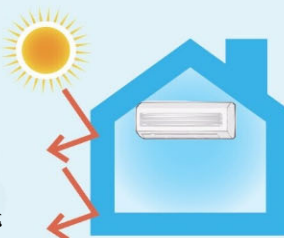
### 遮熱 Point



#### HOT 熱

If the walls absorb infrared rays, the indoor temperature will rise and the efficiency of the air conditioner will decrease.

如果牆壁吸收紅外線, 室內溫度就會升高, 空調的效率就會降低。



“High solar reflectance paint” with excellent heat shielding

耐熱性優異的”高太陽反射率塗料”

The Performance water-based fine coat silicone heat shield uses special pigments to reflect near-infrared wavelengths, preventing heat buildup on exterior walls and reducing heat transfer into the room.

高性能水性精細塗層矽膠隔熱罩用特殊顏料可反射近紅外線波長, 防止外牆熱量累積並減少熱量傳遞到室內, 房間。

#### COOL 冷

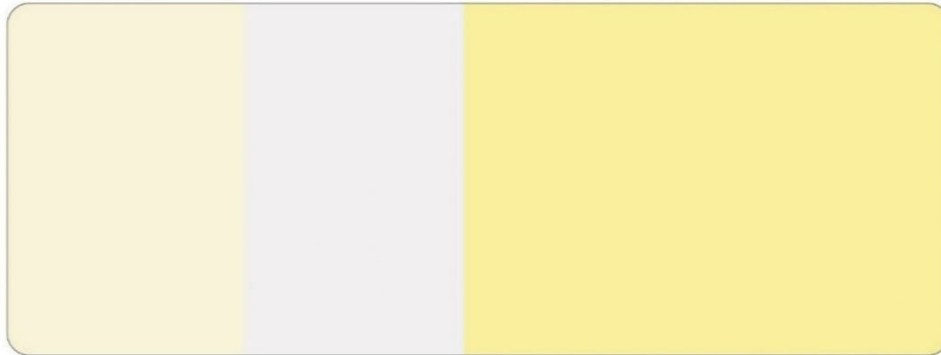
Applying high solar reflectance paint to walls reflects more infrared rays. This makes it difficult for the temperature inside the room to rise.

在牆壁上塗上高太陽反射率料可以反射更多的紅外線。這使得內部的溫度很難上升空間。

# Repaint Variation 重塗變化

Whether you want to use the existing finish as is or change the pattern to a new one, water-based fine coat silicone can handle it.  
無論您是想按原樣使用現有飾面還是將圖案更改為新飾面，水性精細塗層矽膠都可以應對。

**Old coating: Sprayed tiles (uneven pattern)**  
舊塗層: 噴塗磁磚 (花紋不均勻)



Color No. KW173C  
色號: KW173C

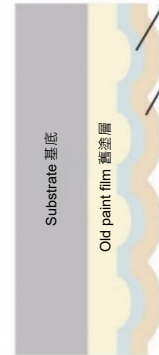
Penetrating Primer E  
滲透底漆E

Color No. KN033D  
色號: KN033D

**Water-based fine coat silicone**

Water-based fine coat silicone 水性精細塗層有機矽

Penetrating Primer E 滲透底漆E



**Old coating: Flat**  
舊塗層: 平面



Color No. KN061E  
色號: KN061E

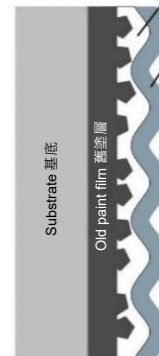
Soft recovery  
微彈性處理  
(porous roller coating)  
(多孔輥塗)

Color No. KN061D

**Water-based fine coat silicone**

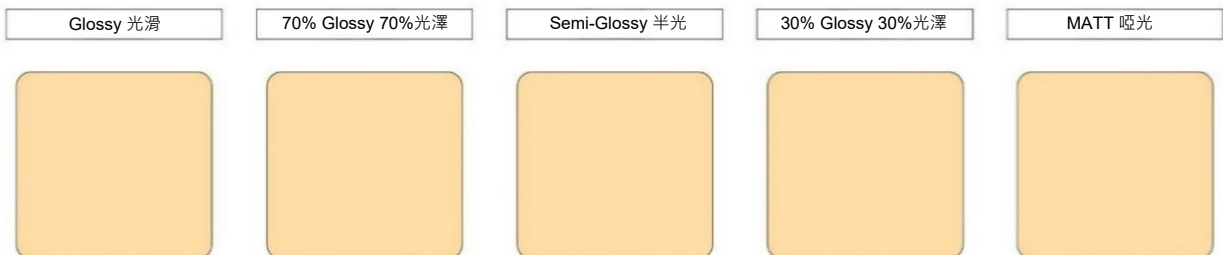
Water-based fine coat silicone 水性精細塗層有機矽

Soft recovery 微彈性處理



You can choose the desired gloss level depending on the purpose and use.  
您可以根據目的和用途選擇所需的光澤度。

\*Water-based fine coat silicone elasticity is only available in glossy and semi-glossy colors.  
\*水性細塗層有機矽彈性僅提供光滑和半光顏色。



**Bonntile Hong Kong Ltd**

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