



# 超親水塗層材料

## Super-hydrophilic Coating Material

### 簡介 Introduction

本材料具備親水且完全潤濕之特殊表面特性，可利用水擦拭或沖洗即輕易去除油污，具有以往材質所無法達到之效果。

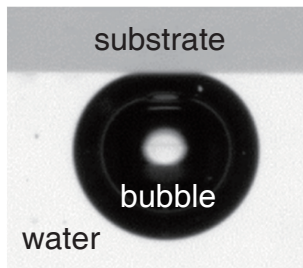
Various materials have been developed to offer different surface properties, such as hydrophilic, super-hydrophilic, hydrophobic and super-hydrophobic for different important applications. Most of them are still unable to meet some new needs in human life. Our material with special hydrophilic total wetting property is capable of removing oil on coated substrate by simply wipe or rinse with water, which has been verified superior to conventional material.

### 特色 Features

對水完全潤濕 (無接觸角)

Total wetting for water

Contact Angle  $< 5^\circ$



Bubble is **moving freely** in water

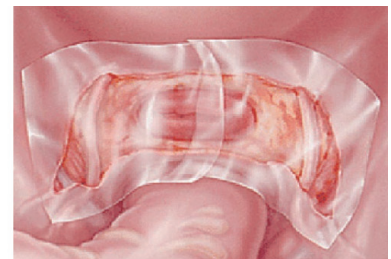
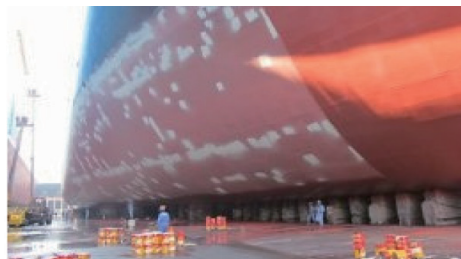


Fully covered by a water layer  
**Infinite contact line**

### 成果與應用 Accomplishments and Applications

此材料可提供多樣化應用，如於抗污易清潔、抗霜、抗菌等的應用有卓越的性能，另亦可作為輸送管線的管壁塗層，可以降低流體摩擦。

Our material can provide diverse range of applications, with excellent performance in stain-resistant/easy to clean, frost-resistant, anti-bacterial applications. It also can be applied on the surface wall of transport pipelines resulting in a reduction of fluid transfer friction.



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