

# RUST BLASTER

## ANTI-CORROSIVE COATING

High performance • Acrylic based • Low VOC • Environmentally-friendly

**RUST BLASTER**, a new environmentally-friendly Anti-Corrosive Coating has gone through rigid testing by Hong Kong Productivity Council on VOC content. The test was executed according to US Environment Protection Agency method 24 and ASTM D2369 reference regarding Volatile Matter Content. The conclusion according to the test results, the submitted sample was found to comply with the maximum permissible limit of Volatile Organic Compound content requirement stated in Hong Kong Regulation Chapter 311W – Air pollution Control (VOC) Regulation Schedule 1 (Regulated Architectural Paints) – Rust Preventive Coating.

**RUST BLASTER**, a test proven Anti-Corrosive Coating was being chosen by a local maintenance contractor for rust resistant application in various projects including: water tanks, light poles, metal roofing and facade, metal railing and exposed metal ducting. RUST BLASTER is non-toxic, which makes it the ideal choice for application on the exterior of water tanks. Another advantage of using RUST BLASTER is the 2 in 1 application process, which does not require a top coat.



Recycled material from industrial waste

**RUST BLASTER** 環保防銹防腐塗料，經香港生產力促進局執行揮發性測試，結果令人滿意。其它測試結果，亦比市場上同類型產品優勝。檢測方法是跟據美國環保局的第24號規格進行，合符ASTM D2369標準（關於揮發性物質的要求指標）。測試結果亦符合香港空氣管制條例 311W 列表1 關於建築油漆及防銹塗料所含揮發性物質的要求。

**RUST BLASTER** 塗料，經過嚴格測試證明其防銹防腐效果卓越、是多用途的防腐蝕材料，已被香港的屋宇維修及保養承包商採用於各類維修工程，發揮長久性防腐功能。由於產品不含毒性，亦可用於水箱的外金屬板上，作為防銹層。RUST BLASTER防銹塗料是屬於底面合一的要求品種，施工簡單方便，其用途極之廣泛。

Developed and manufactured by TP Growth Trading Ltd, RUST BLASTER Anti-Corrosive Coating is tested and certified to meet stringent requirements of various applications.

**RUST BLASTER Anti-Corrosive Coating** is made from recycled material. The raw material, 'alcohol soluble solid thermoplastic acrylic resin copolymer' is being recovered from industrial waste by a low-carbon recycling process developed by the company's research and development center in Zhongshan, Guangdong, China. RUST BLASTER Anti-Corrosive Coating is non-toxic, low VOC, rust resistant and can be used as top coat finishes on metal and a wide range of surfaces.

### TP Growth Trading Ltd

Headquartered in Hong Kong, TP Growth is specialized in the research and development of environmentally-friendly raw materials for the chemical industry worldwide.

For more than a decade, the TPG Group focuses on industrial chemical raw materials recycling technology. The Group's production center is located in Zhongshan, Guangdong Province. A Research and Development Center was established and headed by experts in the chemical industry. The TPG Group has a long history in raw material development for the textile industry.

In 2008, the production center was redeveloped and with the introduction of imported large-scale mechanized production equipment, supported by advanced recycling technology, a wide range of raw material is being exported successfully to many countries in world through TPG Group's Hong Kong headquarters.

**兆利貿易有限公司**總部設於香港，是一家專注環保再生工業的公司。研發中心及工廠設於中國大陸廣東省中山市三角鎮。公司業務主要生產經營固體熱塑性丙烯酸樹脂原料。

公司主要成員均擁有超過十多年的環保再生工作經驗，在化工產品研發方面已擁有多項創新的技術。在工業廢料的處理、回收、再生、銷售等各領域已達到理想的商業效益。

本公司的產業鏈全面覆蓋從廢料回收到產品製成的每一個環節，有效地監控整個流程完全符合環保要求。

固體 - 熱塑性丙烯酸樹脂(苯乙烯-甲基丙烯酸酯共聚物)，是一種用途廣泛的工業用原材料。產品形狀為碎粒或碎粉，顏色淺灰或其他色調均可。產品優點為附着力、光澤度高和硬度好。產品適合用於橡膠油墨、各類塗料廠底漆用，可加工作其他塑膠用途製品。

由本公司研發及生產的防銹防腐塗料 (**RUST BLASTER ANTI-CORROSIVE COATING**) 獲香港生產力促進局詳細測試，試驗報告及參數已為建造業認定是同類產品之冠。RUST BLASTER 防銹防腐塗料用途廣泛。



Low VOC

Recycled material

## Products

**RUST BLASTER Anti-Corrosive Coating** is produced from a renewable raw material known as "alcohol soluble solid thermoplastic acrylic resin copolymer." The substance possesses a comprehensive performance against any kind of corrosion on various types of metal. TP Growth has successfully recycled the raw material from industrial waste which is readily available in large quantity. The production of RUST BLASTER contributes to the protection of the environment by reducing industrial chemical waste, which is an enormous treat to our society.

Outstanding properties of RUST BLASTER:

- Renewable raw materials - alcohol soluble solid thermoplastic acrylic resin copolymer - forms the main ingredient of the anti corrosive primer/paint
- Excellent adhesion
- Excellent water resistance
- Highly durable and rust resistant
- Low emission of volatile organic solvents (VOC)
- Tested and authentication by the Hong Kong Productivity Council
- Comply with international environmental protection requirement
- No heavy metal content (such as lead ingredients)
- Low precipitation
- A comprehensive performance anti corrosive primer/ paint
- Two-in-one applications (no top coat is required)

## Production

**RUST BLASTER Anti-Corrosive Coating** was tested by the Hong Kong Productivity Council. **RUST BLASTER** is being identified and authenticated as a Green Product. Our factory, equipped with advanced production line and testing equipment, follows strict production and quality management systems which ensures that the final product compiles with international standards and requirements. Huge effort is being made during production to protect the environment and free from contamination.



## Specifications

- Composition of pigments and recycled polyacrylic resin
- Contains more than 60% of polyacrylic and anti-corrosion pigments
- Provides long lasting anti corrosion and water resistance to metal

### Properties

- Single component type, easy to mix, easy to paint
- Unlike other coatings which require two or three components
- Single pack compound, no limited pot life, no complex mixing methods
- Requires thorough mixing and only sufficient film thickness is obtained
- Simple and fast applications
- Meets all Low VOC standards in Hong Kong and complies with VOC-restricted level
- Tested in accordance with ASTM Standard by the Hong Kong Productivity Council

## Applications

**The Best Solution for all kinds of Rust Proof applications**

**RUST BLASTER Anti-Corrosive Coating** is suitable for internal and external use, wet and humid environment, all kinds of construction steel structure, bridge, wharf, hollow metal door and frame, machinery, equipment, piping and in all industrial facilities under extreme climatic conditions.

- Steel frame structure
- Metal construction formwork
- Metal window and door
- Metal roofing
- Metal piping
- Light pole Metal railing
- Balustrade
- Steel tower
- Water tank
- Metal fence
- Construction machineries and equipment

# Acrylic based

# Environmentally-friendly

## 產品介紹

- 環保型再生原料「醇溶固體熱塑性丙烯酸樹脂共聚物」合成出來的縱合性防腐底層塗料
- 提供了優異的附著力
- 精湛的耐水性
- 高度耐用的抗腐蝕性能防銹
- 低 VOC 有機溶劑揮發物排放
- 符合環保要求，不含鉛等重金屬成份
- 不易沈澱，簡單使用的單組份施工低表面處理塗料
- 縱合性能防腐底層塗料，並且可作面漆用途
- 屬於底面合一的要求品種，可以單獨使用

## 產品規格

**RUST BLASTER** 產品是單組份塗料，由回收、再生的特殊環保丙烯酸樹脂為粘合成膜物，配以進口的優質環保防銹顏料、填料、助劑等，經過科學合理的工藝調配而成的高性能單組份丙烯酸防銹塗料。

### 屬性

- 防銹性能良好
- 不易沈澱，單組份施工方便
- 能夠達到環保要求，不含鉛等重金屬成分
- 可以調試多種產色以便滿足不同的客戶需求
- 屬於底面合一的要求品種，可以單獨使用

## 產品應用

產品適合於內部和外部使用中度的腐蝕環境，包括各類建築鋼結構防腐及下列各項目：

- |            |          |
|------------|----------|
| • 橋樑       | • 機械設備   |
| • 碼頭       | • 管道     |
| • 空心金屬門及框架 | • 混凝土及牆壁 |
| • 櫥櫃       | • 所有工業環境 |

## 研發生產

研發中心及工廠設於中國大陸廣東省中山市三角鎮，設備先進，管理完善。整體運作，從工業廢料的處理、回收到再造、銷售等各領域已達到理想的商業效益。

由本公司研發及生產的 **RUST BLASTER** 防銹防腐塗料，經香港生產力促進局詳細測試，確立其質量水準，並獲業界評為“綠色產品”。

**RUST BLASTER** 防銹防腐塗料生產流程，嚴格依照國際規格檢測，保證產品質量穩定，合符國際要求。生產過程，注重環保，不會污染環境。



# RUST BLASTER

[www.tpgrowth.hk](http://www.tpgrowth.hk)

## Technical data

## 技術參數

**RUST BLASTER** Recycled Polyacrylic Anti-Corrosive Coating is a single component based coating.

Colour	gray, black, rust, beige
Finish	flat
Specific Gravity	1.35+0.05 kg/L
Adhesion	less or equal to level 1
Flexibility (mm)	less or equal to 2
Impact resistance (kg/cm)	more or equal to 50
Non-volatile (%)	more or equal to 65
Surface dry time to touch	23+2 degree C & humidity 50%+5%: less than or equal to 1 hour
Surface dry time to full core	23+2 degree C & humidity 50%+5%: less than or equal to 20 hours
Flash Point	20 degree C
Viscosity (with 4 cups / rotational viscometer)	200~400 sec. / 2,000~5,000 Mpas
Fineness (um)	more or equal to 40
Theoretical use level (kg/m <sup>2</sup> )	0.13 as 40 microns dry film
Salt spray test ≥ 240 hours	no rust detected

**RUST BLASTER** 單組份丙烯酸防銹防腐塗料

顏色	灰色、黑色、鐵紅色、米黃色
外觀	漆膜平整
比重 (kg/L)	1.35+0.05 kg/L
附着力 (劃圈法級)	≤1
柔韌性 (mm)	≤2
衝擊強度 (kg.cm)	≥50
不揮發份 (%)	≥65
表幹h	23±2°C 濕度50±5%: ≤1
實幹h	23±2°C 濕度50±5%: ≤20
閃點	20°C
粘度 (塗4杯,秒)	200-400 sec. / 2,000-5,000 Mpas
細度 (um)	≤40
理論用量 (kg/m <sup>2</sup> )	0.13 (以40 μm幹膜計)
耐鹽霧試驗 ≥ 240 hours	不起泡不生銹

## Job reference

## 工程案例

### Zhongshan Convention Centre

The Zhongshan Convention Centre is a new landmark project in the city of Zhongshan, Guangdong province, China. Designed by world renowned American architectural firm SOM, the state-of-the-art convention facility has a GFA of more than 16,000 square meters. We are proud to have supplied RUST BLASTER Anti-Corrosive Coating to this prestigious project.



### 中山會議中心

位於中山市中心區，由美國著名建築師事務所SOM設計。中山會議中心建築面積超過16,000平方米，是一幢國際級的會議中心及中山市的地標性建築物。RUST BLASTER 防銹防腐塗料廣泛用於保護建築物的金屬結構。

### Zhongshan Financial Building

The Zhongshan Financial Building is another major project using RUST BLASTER Anti-Corrosive Coating for rust protection. Located in the CBD of Zhongshan city, the building was constructed by structural steel frame and RUST BLASTER Anti-Corrosive Coating was chosen for its high performance and efficiency.



### 中山金融大廈

項目位於中山市商業中心，上蓋以鋼結構架建造。RUST BLASTER 防銹防腐塗料被採用作為鋼結構的防銹保護層塗料。

### More job reference



Shangri-la Hotel, Zhongshan  
中山香格里拉大酒店



Raw material industrial plant in Jiangmen  
江門財新日化原料有限公司



Construction equipment for a theme park  
in Guangdong  
長江游樂設備工程

[www.tpgrowth.hk](http://www.tpgrowth.hk)

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