

# Corporate Introduction

**MANFIELD** 萬輝塗料

Safety • ECO • Innovation • Society



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## Mission

By integration of resources and providing creative solutions so as to create a corporate with sustainable development for taking care of the legitimate interests of related parties.

## Vision

Being a leading company in technical and managerial aspect for specific industrial coating market segment.

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# Corporate Growth



**1986**  
Founded in Hong Kong



**2015**  
Listed in HKEX  
Stock Code: 01561



**2020**  
Group Turnover Over  
HKD 400 million

**1991**  
Songgong Shenzhen  
factory established

**2007**  
Wujin Changzhou  
factory established

**2013**  
Zengcheng Guangzhou  
factory established

**2018**  
Changping Dongguan  
factory established

**2020**  
Ninh Binh Vietnam  
factory established

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# Awards

Application of Quality Award: Aim at improving overall management system through advices and opinions from evaluation experts



Young Industrialist Award



Productivity Award by HKPC



Productivity Award by HKPC



Quality Award by HKMA



APBEST Award – US Malcolm Baldrige Model



Certificate of Good-Faith Enterprise



Advance Enterprise in Energy Saving and Waste Reduction



Pearl River Delta Environmental Awards



Quality Award by Shenzhen Quality Association

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Safety



ECO



Innovation

Brand Concept



Product & Technology

The central graphic features a large, light blue circular arrow pointing downwards. In the center of the arrow is the MANFIELD logo, which consists of a stylized white 'M' above the word 'MANFIELD' in a bold, white, sans-serif font.



Liquid Coating



Ink



# Safety

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# Safety



**China National Accreditation  
Service for Conformity  
Assessment  
CNAS Laboratory**

**Well Established  
Product Traceability System**



**World Renowned Toy Company  
Coating Supplier**



**Comply to worldwide  
Safety Standard**

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# Safety

Chemical Testing Equipments and Analytical Equipments (Investment > RMB 8 million)



IR Spectrometer

UV-VIS



GC / MS

GC



LC-ICP-MS

ICP

IC

# Safety

CNAS Accredited Laboratory (CNAS L4539) / Mattel & Hasbro Approved Laboratory



## CNAS Accredited

- Migration of certain elements: Arsenic, Barium, Cadmium, Chromium, Mercury, Lead, Antimony, Selenium
- Total Lead, Total Mercury
- Phthalates
- Volatile Organic Compounds (VOCs)
- Benzene, Toluene, ethyl benzene, Xylene
- Hexavalent Chromium
- Polybromobiphenyls/  
Polybromobiphenyl
- PAHs
- Halogen (Cl/Br)

## Others

- Infrared Spectrum Analysis
- Solvent Contents Analysis (GC Analysis)
- Analysis of Water Content in Solvent

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# Safety

Reliability Testing Equipments (Investment > RMB 4 million)



RCA Abrasion Tester

Rubber Eraser  
Abrasion Tester

Taber Abrasion Tester

Nokia Vibrating  
Abrasion Tester

Salt Spray Tester

High Temp.  
High Humidity Tester

High-Low Temp.  
Cycles Tester

Boiling Water Tester

QUV/Q-Sun  
Weathering Tester

UV Energy Tester

High Voltage Tester

Oven Temp. Tracker

Film Thickness Analyzer

Gloss Meter

Colour Computer

Standard DFT  
Spraying System

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# Safety

Comply to worldwide Safety Standard

## Worldwide Toy Safety Standard

- ISO8124
- GB6675 China
- EN71(2009/48/EC) EU
- AS1647 Australia
- NBR11786/1998 Brazil
- C.R.C., c.931 Canada
- ASTM F963 America
- NZS5820 New Zealand
- SABS ISO8124 South Africa
- MSEN71 Malaysia
- SSA1063 Saudi Arabia
- SS474PT Singapore
- TIS685-2540 Thailand

## Heavy Elements:

- EN71 EU Requirements: 19 Heavy Elements
- China Toy Safety Standard: 8 Heavy Elements

## PAHs:

- German 18 PAHs: AfPS GS 2019:01 PAK (PAH)
- EU 8 PAHs : ECHA Reach Annex XVII Entry 50

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# ECO



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# ECO

## Waterborne Coating

- Started waterborne coating development early at 2008.
- Specialized WB R&D Team
- Key markets including toys, 3C (computers, communications and consumer electronics) and automotive

## WB Products and Applications

Product Series	Product Type	Applicable Substrates	Applicable Market
970	1k	ABS, PC, ABS+PC	Desktop, AIO Housing / General 3C Products
907	UV	ABS, PC, ABS+PC	Electric Socket Case / 3C Products
911	H/B	Al Alloy / Zn Alloy / SUS	AIO Stand / Monitor Stand / Smart Electric Lock
918	2k PU	Metal	Automotive Shock Absorber
932	2k	ABS, PC, ABS+PC	Desktop, AIO Housing / General 3C Products
951	1k	ABS	Plastic Toys
960 + 906	2k PU + 2k ST	ABS+PC	Notebook Computers / Desktop or AIO Housing
960 + 902	1k + UV	ABS+PC	Electric Socket Case / High End 3C Products
OTS + 955	2k PU + 2K ST	TPO, TPV, TPU, TPS, PP+SBS, PP+EPDM	Automotive Airbag



# ECO

## Low VOC UV Coating



- UV Monocoat
- 180 Degree Bending Resistant UV



- Long Lasting Stain Resistant UV
- Anti-Bacterial / Anti-Viral UV
- Silky Feeling UV
- Anti-Fingerprint UV
- Dual Curing UV



- Anodizing Effect UV

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# Innovation

A person in a light-colored suit is seen from behind, painting a large, vibrant abstract mural on a wall. The mural features a central circular motif with concentric brushstrokes in shades of blue, green, and yellow, surrounded by splatters and streaks of various colors including purple, pink, red, and orange. The overall scene is dimly lit, emphasizing the colors of the paint.

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# Innovation



- Anodized Effect UV
- Thermo-chromic / Photochromic Effect
- Hydrochromic Effect
- Water Soluble Coating



- Long Lasting Stain Resistant UV
- MF-Instantheal
- Fragrant Coating
- Anti-Bacterial /Anti-Viral Coating



- DOD Lamination Technology

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# Innovation

## DOD Overlaying Process



- SF-CMF is a fellow subsidiary of Manfield Coating
- Mainly develop and integrate worldwide DOD and IMD Technology

### DOD Working Principle:

Through manipulate differential pressure and temperature, overlay the target substrate by functional or decorative laminated film

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# Toy Market

Coating Products are applicable on both plastic and metal substrates

Classification	Substrates						
Hard Plastic	ABS	PC	HIPS	PS	PP		
Soft Plastic	PVC						
TPE	TPU	TPR	SBS	Kraton	EVA	P.U. foam	Leather
Metal	Al Alloy	Zn Alloy					
Other Surface Treatment Process	VUM	Stoving Enamel					

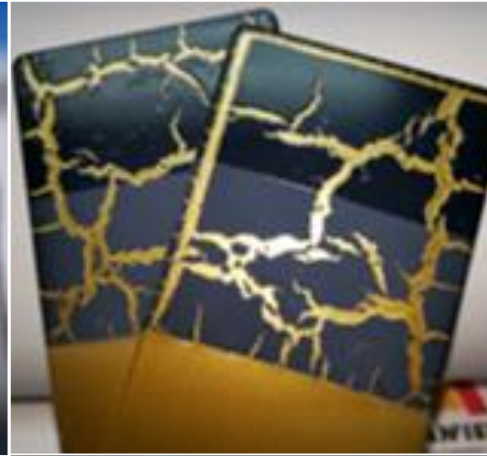
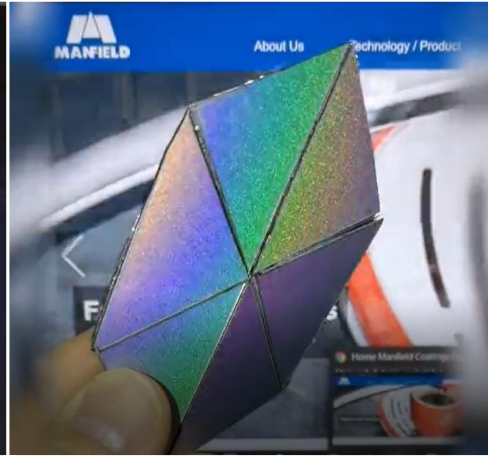
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# Toy Market

## Special Effect Coating



# Consumer Electronics Market

High Bake System



2k PU System



2k Soft Touch System



1k Solvent/Waterborne System



UV System

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# Automotive Market

## Interior / Exterior Decoration Coating System

Air Bags



Dashboard



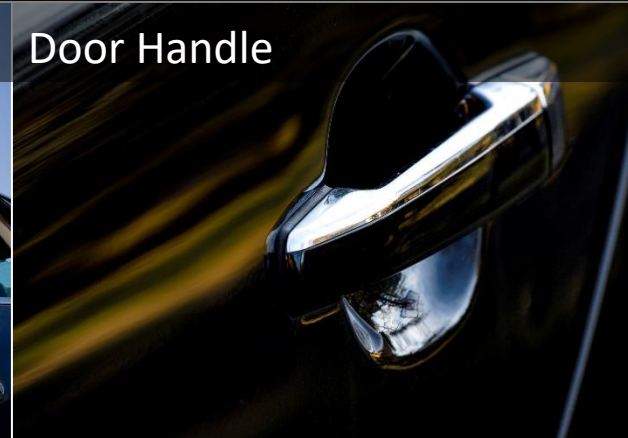
Control Panel / Buttons



Rearview Mirror



Door Handle



B Pillar / Bumper



Shock Absorber



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# Social Responsibility

Gratia Foundation Limited

**3 China Children Villages  
Accommodate over 250 underprivileged  
children**

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# Social Responsibility

Alashan League Springfield Forestry Company Limited

## Desertification

30,000 acre Reforestation and de-desertification project of Malan Lake Region of Ecological Migration area of Alashan League

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Thank you for your support !  
We hope that we can have more  
cooperation in the future

[www.manfieldcoatings.com](http://www.manfieldcoatings.com)

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