

富睿纺织(上海)有限公司 FURUI TEXTILE(SHANGHAI)CO.,LTD Compancy profile

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Preface

The market for waterborne PU(WPU) has grown rapidly over the past few years. The main reason is the growth of alternative demand for solvent-based PU. Europe is the largest market for WPU, accounting for 35% of global demand in 2014. The combined annual growth rate is expected to be well above the global average. In 2014, the global WPU market exceeded \$4.3 billions. CAGR (compound annual growth rate) is more than 9 percent, the industry continues to grow is obvious. In 2017, Government issued the 13th Five-Year Plan of the National Environmental Protection Standards, for further improve the environmental protection standard system, and give full play to the positive role of standards in improving environmental quality and preventing environmental risks. Fu Rui is also in line with the transformation of the market and enterprises in environmental protection obligations to spare no effort.





Micro Fabric-Micro Feel

Water resistance, perspiration resistance, aging resistance, wear resistance, flex resistance, high temperature resistance, low temperature resistance, waterproof, anti-pollution ability, easy to maintain, non-toxic and environmentally friendly, tasteless, mildew-proof and mothproof





Micro Fabric

Application:



Shoes

Good physical performance, good molding effect, soft feel, delicate creases, suitable for men and women fashion shoes, casual shoes, sports shoes, etc.



Bags

Leather texture, leather style, can completely replace the leather.



Clothes

Water-based environmental protection materials, low voc, high flame retardant, good weather resistance, light resistance and other physical properties

Strength



- **♦** Environmental Friendly
- **♦** Professional
- Diversification



- ♠ R&D Team, High-standard Lab close cooperation with company like BASF, Stahl and Covestro.
- Cooperate with University of Science and Technology of China
- Cooperate with Sichuan University





Environmental Friendly

Use water-based and solvent-free polyurethane for raw materials.
No DMF and other solvents











Pollution-free and non-toxic for environment and staff.

Harmless fo clients when they use the product.





Biodegradable products, no extra burden to the environment

Opportunity

01 Macro Environment



- Increasingly serious environmental issues
- Customer need for Environmental Friendly and "No DMF" product

02 Policy



Increasingly strict domestic and international policy

Forecast

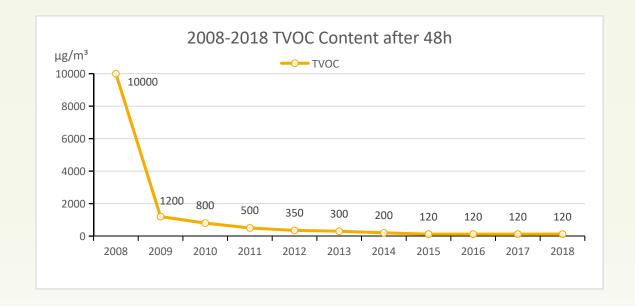


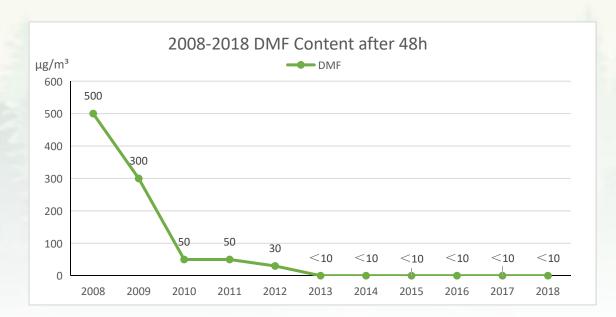
The market for green PU fabric will exprience a sharp increase between 2015-2020 in China Market.

Compound growth rate for green PU coated fabric between 2015 and 2020 is 16.30%.

In 2020, the market demand for green PU coated fabric will be 585million m²

TVOC&DMF 含量





These changes demonstrate our transformation from solvent-based products to waterborne PU.

TVOC content decreased from 10,000 µg/m³ to 120 µg/m³.

The DMF content decreased from 500 μ g/m³ to less than 10 μ g/ m³.

Since September 2016, the raw materials and the production process of the products are no longer DMF or other dissolved agent.

Facility







Transfer Coating Line

Direct Coating Line

Microfiber Line

Facility-processing



Printing Machine



Lamination



Hot Lamination



Continues Tumbling



Vaccum Embossing



Embossing Machine

Facility





Automatic charge mixture system

Discharge treatment equipment





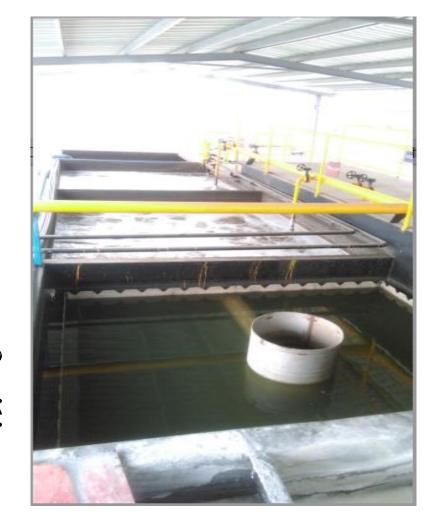
Sewage treatment equipment

Discharge treatment equipment



Sewage detection room

sewage treatment facility



Discharge treatment equipment

Exhaust gas collection and treatment facility



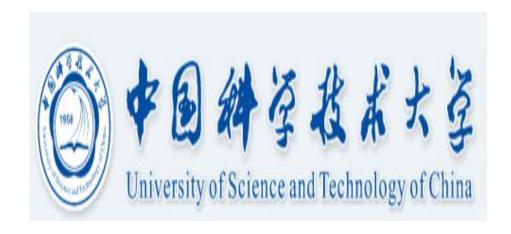
Chemicals management

- 1. Designate specific people to collection all MSDS information and TDS
- 2. According to newest istruction of customers, update chemicals list on time, for tracking any time
- 3. Necessarily adopt excellent suppliers, constant update suppliers' information and chemicals list information
- 4. Monitor the sewage and trash during the production process
- 5. Avoid cross contamination



University-Enterprise cooperation

- 1. Set up R&D center with University of Science and Technology of China in 2007
- 2. Set up R&D center with SICHUAN UNIVERSITY in 2015
- 3. Actively engage in research with relevent colleges and universities





Quality Control and Facility

IQC (Incoming Quality Control)

PQC (Process Quality Control)

FQC (Final Quality Control - 100% check)

Final Inspection





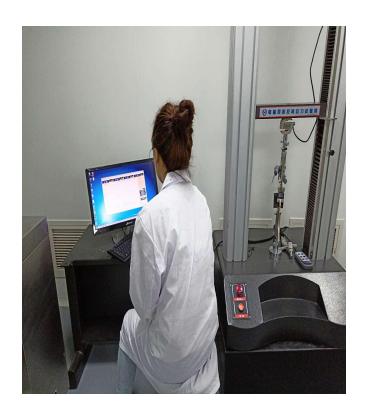




High-standard Lab







- ITTC assisted with the design of the Lab
- Training Program with ITTC

