



Go ahead with Technology

深圳飞扬骏研新材料股份有限公司

Shenzhen Feiyang Protech Corp., Ltd

总部地址：深圳市宝安区宝城67区隆昌路8号飞扬科技园B座8楼

生产基地：珠海市高栏港经济区石油化工区北五路1号

Headquarter: 8Fl, B Block, Feiyang Technology Park, 8 Longchang Road,  
Baocheng 67 Zone, Bao'an Dist, Shenzhen, China.

Production Base: No.1 North Five Road, Petrol Chemical Zone, Gaolan Port  
Economic Zone, Zhuhai, China.

总机电话 (Tel) : +86 755 3358 6333 传真 (Fax) : +86 755 3358 6111

国内销售 (Domestic Sales) : +86 183 0755 6690

海外销售 (Overseas Sales) : +86 183 0755 6691

中文网站 (Chinese) : [www.feiyang.com.cn](http://www.feiyang.com.cn)

外文网站 (Others) : [www.polyaspartic-polyurea.com](http://www.polyaspartic-polyurea.com)



## 天冬聚脲树脂 / 弹性固化剂

### Polyaspartic Polyurea Resin / Elastic Hardener

中国天冬聚脲民族品牌 National Brand of Polyaspartic

深圳飞扬骏研新材料股份有限公司

Shenzhen Feiyang Protech Corp., Ltd

天冬聚脲材料研发、制造商

提供环保、节能、长效寿命涂装解决方案供应商

Polyaspartic materials researcher and manufacturer.

Environmental protection, energy saving

and long service life coating solution supplier.





飞扬总部-深圳  
Headquarter-Shenzhen



飞扬生产基地-珠海  
Production Base-Zhuhai



Based on Polyaspartic Technology

## 公司简介 Company Profile

深圳飞扬骏研新材料股份有限公司是国家级高新技术企业，专注于聚天门冬氨酸酯聚脲(天冬聚脲)高分子材料的研发、生产和销售。

飞扬骏研目前在天冬聚脲领域已获得发明专利20余项，2015年已经参与三项天冬聚脲行业标准制定，天冬聚脲项目被国家科技部列入“2010年国家火炬计划”、“2012年国家重点新产品”(国家四部委颁发)、2014年国家科技支持计划和2015年国家火炬计划；该产品列入2012年广东省名牌产品，于2014年被广东省科学技术厅授予成立广东省天冬聚脲高分子材料(飞扬)工程技术研究中心。在2016年10月，在全国中小企业转让系统(又称：新三板)的挂牌获得批准。

Shenzhen Feiyang Protech Corp., Ltd. is a national high-tech enterprise. We have been focusing on researching, production, marketing of Polyaspartic Ester Polyurea (Polyaspartic Polyurea) high polymer materials.

At present, Shenzhen Feiyang Protech Corp., Ltd. has obtained more than 20 patents in the field of polyaspartic polyurea. In 2015, Shenzhen Protech participated in three polyaspartic polyurea industry standards drafting. In addition, polyaspartic polyurea project has been listed in "2010 National Torch Plan" by "Ministry of science and technology", "2012 National Key New Product" issued by state four ministries, and "2014 National Science and Technology Supporting Program". Polyaspartic polyurea products have been awarded by "2012 Guangdong Province Brand-name Products". In 2004, "Guangdong Province Polyaspartic Polyurea High Polymer Materials (Feiyang) Engineering Technology Research Center" was established by Science and Technology Department of Guangdong Province. On Oct.2016, Feiyang Protech was approved to list in the national minor enterprises transfer system (also known as: the new three board).

## 公司荣誉 Company Honors



高新技术企业  
High and New Tech Enterprise



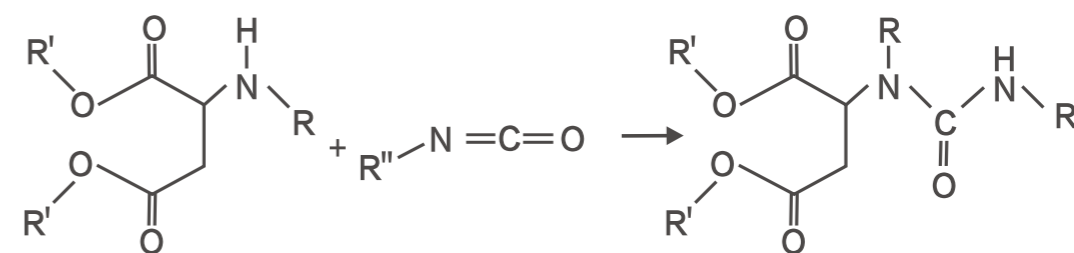
国家重点新产品  
National Key New Product



广东省工程技术研究中心  
Guangdong Engineering Technology Research Center

## 目录 Catalog

天冬聚脲化学结构式 Polyaspartic Polyurea Chemical Structure	04
天冬聚脲材料 Polyaspartic Polyurea Materials	05
飞扬天冬聚脲标准/专利 Feiyang Polyaspartic Polyurea Standard/Patents	06
聚天门冬氨酸酯树脂 Polyaspartic Polyurea Resin	07
弹性固化剂 Elastic Hardener	09
液体聚酯树脂系列 Liquid Polyester Resin Series	11
天冬树脂应用领域 Polyaspartic Polyurea Applications	13



## 天冬聚脲化学结构式

## Polyaspartic Polyurea Chemical Structure



## 聚天门冬氨酸酯聚脲材料 Polyaspartic Polyurea Materials

聚天门冬氨酸酯聚脲材料是聚脲工业领域出现的一种新型脂肪族、慢反应、高性能涂层材料，被称为第三代聚脲。

Polyaspartic Ester Polyurea is called Aspartic Polyurea for short. It's a new type of aliphatic series coating material with slow reaction and high-performance. It is called the third generation Polyurea.

## 飞扬天冬聚脲标准/专利 Feiyang Polyaspartic Polyurea Standard/Patents

### 天冬聚脲行业标准

- ◆ 油气架空管道防腐保温技术标准，标准号：SY/T73472016
- ◆ 聚天门冬氨酸酯防腐涂料，标准号：HG/T 5368-2018

### 天冬聚脲专利技术

- ◆ 201220431122.2 天冬聚脲表面装饰层
- ◆ 200910252150.0 一种脂肪族羟氨基聚醚及其制备方法
- ◆ 201710158809.0 一种天门冬氨酸酯自流平涂料及其制备方法
- ◆ 201710714596.5 一种高强度的天冬聚脲防水涂料及其制备方法
- ◆ 201611244525.5 一种异氰酸酯固化剂的合成方法
- ◆ 201710634179.X 双组份聚天门冬氨酸酯脲硬质胶黏剂及其使用方法和应用
- ◆ 201710763825.2 一种用于风机叶片的天冬聚脲快干弹性涂料及其制备方法
- ◆ 201710774758.4 一种聚天门冬氨酸酯脲胶黏剂及其施工工艺
- ◆ 201711342078.1 一种无溶剂型天冬聚脲防水修复材料
- ◆ 201711445934.6 一种天门冬氨酸酯灌封胶的制备方法
- ◆ 201810429201.1 一种油污混凝土地面用抗油污底漆树脂的合成方法
- ◆ 201810429179.0 一种弹性聚天门冬氨酸酯脲地坪涂料及制备
- ◆ 201810327390.1 一种天门冬氨酸酯高强度耐候型防水面漆及其制备方法
- ◆ 201811037229.7 一种含氟聚天门冬氨酸酯树脂及其合成方法
- ◆ 201811037228.2 一种氟改性天冬聚脲涂料及其制备方法
- ◆ 201910707877.7 一种美缝剂

### Polyaspartic Polyurea Industry Standard

- ◆ Oil and gas overhead pipe anti-corrosion and insulation technology standard Standard code: SY/T73472016
- ◆ Polyaspartic polyurea anticorrosion coating standard Standard code: HG/T 5368-2018

### Polyaspartic Polyurea Patents

- ◆ 201220431122.2 Polyaspartic surface decoration layer.
- ◆ 200910252150.0 An aliphatic hydroxyamino polyether and its preparation method.
- ◆ 201710158809.0 An aspartic ester self leveling coating and its preparation method.
- ◆ 201710714596.5 A high-strength polyaspartic polyurea waterproof coating and its preparation method.
- ◆ 201611244525.5 A synthetic method of isocyanate curing agent.
- ◆ 201710634179.X Two-component polyaspartic polyurea rigid adhesive and its application.
- ◆ 201710763825.2 Polyaspartic polyurea fast drying elastic coating for wind blades and its preparation method.
- ◆ 201710774758.4 A polyaspartic ester urea adhesive and its construction technology.
- ◆ 201711342078.1 A kind of non-solvent polyaspartic polyurea waterproof repairing material.
- ◆ 201711445934.6 A preparation method of aspartic ester perfusion sealant.
- ◆ 201810429201.1 A synthetic method of oil resistant primer resin for oil stained concrete floor.

# 聚天门冬氨酸酯树脂 FEISPARTIC®

## Polyaspartic Polyurea Resin FEISPARTIC® Series

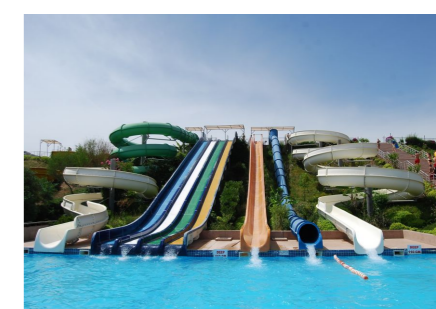
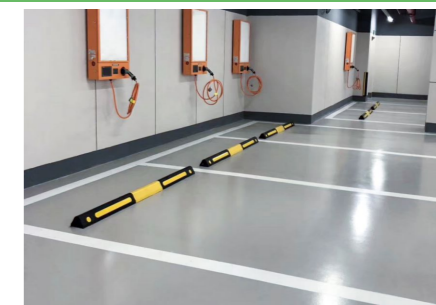
型号 Model	相对密度 Density (25°C)	粘度 Viscosity (mpa.s/25°C)	固含量 Solid Content (%)	当量 Equivalent Weight	羟基含量 Hydroxyl Value Equivalent	凝胶时间 Gel Time/min (25°C, RH55%)	应用领域 Application Areas
F520	1.06	800-2000	96±2	290	5.86	130	防腐, 地坪, 叶片涂料 Anti-corrosion, flooring, windmill blade coating
F420	1.06	800-2000	97±2	277	6.14	18	防水, 防腐, 地坪, 叶片涂料, 胶黏剂 Waterproof, anti-corrosion, flooring, windmill blade coating and adhesive
F220	1.05	60-100	97±2	230	7.39	2	防腐, 快速固化涂料 (常温下15分钟可包装) Anti-corrosion, fast cure coating (can be packed in 15mins under 25°C)
F2850	1.07	80-140	97±2	290	5.86	60	防腐, 地坪涂料, 胶黏剂 Anti-corrosion, floor coating and adhesive
F2872	1.06	300-500	97±2	290	5.86	26	防腐, 地坪, 灌封胶, 汽车修补漆 Anti-corrosion, flooring, pouring sealant, car refinishing
F286	1.04	150-500	90	330	5.15	26	防腐, 地坪涂料 Anti-corrosion, floor coating
F520L	1.06	800-2000	96±2	290	5.86	130	防腐, 地坪, 叶片涂料 Anti-corrosion, flooring, windmill blade coating
F221	1.04	300-600	97±2	379	4.47	28	防腐, 地坪涂料 Anti-corrosion, floor coating
F321	1.02	200-600	-	379	4.47	55	防腐, 地坪, 防水涂料 Anti-corrosion, flooring, waterproof coating
F421	1.06	1500-2500	≥99	277	6.14	26	防水, 防腐, 叶片, 地坪涂料 Waterproof, anti-corrosion, windmill blade, floor coating
F423	1.06	1000-2500	≥99	271	6.27	26	防水, 防腐, 叶片, 地坪涂料 Waterproof, anti-corrosion, windmill blade, floor coating
F524	1.06	1600-2800	97±2	330	5.15	26	防水, 防腐, 叶片, 地坪涂料 Waterproof, anti-corrosion, windmill blade, floor coating
F330	1.06	250-600	97±2	334	5.09	21	防水, 地坪涂料, 体育设施, 密封胶 Waterproof, floor coating, athletic facility, sealant
D2925	1.01	400-1500	60±2(BA)	1140	1.5	-	防水, 地坪 Waterproof, floor coating



## 弹性固化剂 FEICURE® 系列

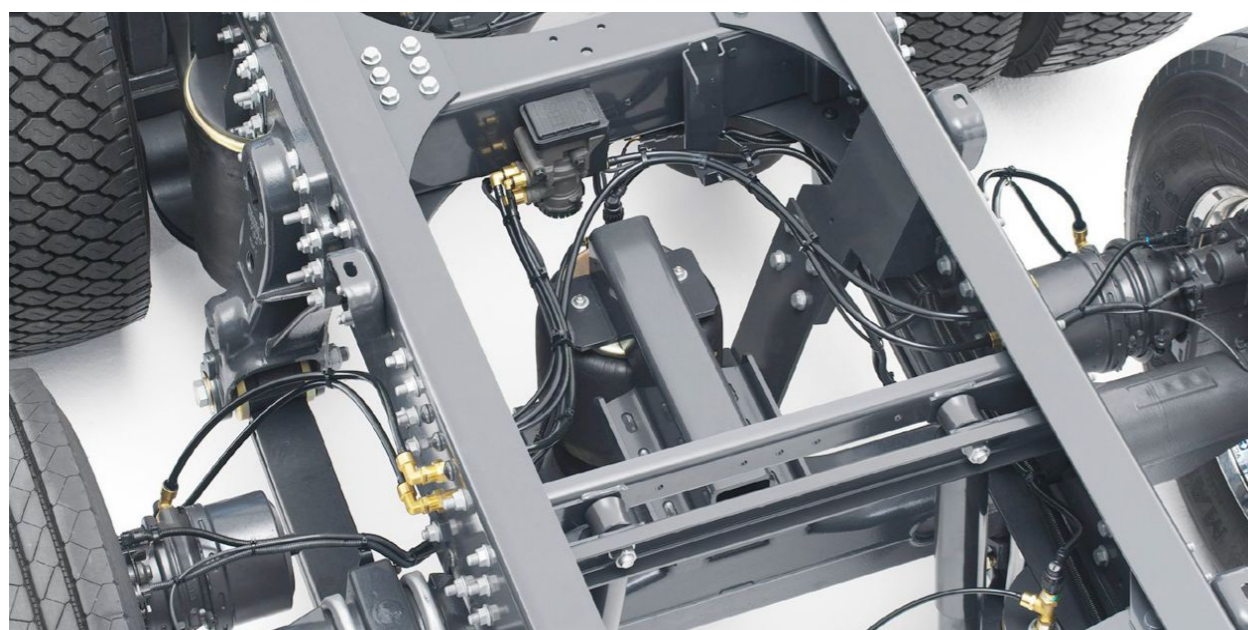
### Elastic Hardener FEICURE® Series

型号 Model	相对密度 Density (25°C)	粘度 Viscosity (mpa.s/25°C)	固含量 Solid Content (%)	NCO含量 NCO Content (%)	类型 Type	特征, 用途 Features and Applications
SP-103P	1.01	100-300	60 ± 2(BA)	3.2-3.6	IPDI Prepolymer	外用型防水面漆专用固化剂; 调节天冬聚脲刚性涂料体系的柔韧性能。耐黄变QUV 1500 hours Dedicated hardener for exterior waterproof topcoat; Adjust flexibility of polyaspartic rigid coating system. Non-yellowing, QUV testing 1500 hours.
GB905A-85	1.05	3000-6000	85 ± 2 (xylene)	6.6-7.2	IPDI Prepolymer	固含量高, 短支链, 用于高固含弹性涂料, 改善PU柔韧性 High solid content, short branched-chain, applied in flexible high solid content coating. Improve the flexibility of PU system.
GB926-85	1.05	4000-6000	85 ± 2(BA)	4.9-5.3	IPDI Prepolymer	高伸长率, 高强度, 抗雨蚀冲击, 用于高固含弹性涂料, 改善PU柔韧性, 可用于风机叶片面漆、前沿保护漆等。 High elongation and strength, resist to rain erosion, applied in flexible high solid content coating. Improve the flexibility of PU system. Can be used for windmill blade topcoat, Leading edge protective coatings etc.
GB951-100	1.11 ± 0.02	1000-2500	≥99	20.8-21.2	HDI / Si Prepolymer	用于防腐涂料, 改善涂层附着力 Anti-corrosion coating, improve coating adhesion.
GB805A-100	1.1	3000-6000	≥99	4.7-5.2	TDI/HMDI Prepolymer	用于无溶剂天冬聚脲弹性防水, 地坪面漆 Applied in non-solvent polyaspartic flexible topcoat, flooring topcoat.
GB805B-100	1.05	1500-3000	≥98	10.3-10.7	TDI/HMDI Prepolymer	高固低粘, 用于无溶剂弹性防水, 地坪涂料, 灌缝材料等 High solid content, low viscosity. Applied in non-solvent flexible waterproof, flooring and sealing materials etc.
GB605C-100	1.04	2000-4000	≥98	8.1-8.6	HMDI Prepolymer	高固低粘, 用于无溶剂地坪涂料、胶粘剂、封边胶等 High solid content with low viscosity, applied in solvent-free flooring coating, adhesive, edge sealing adhesive etc.



## 液体聚酯树脂系列 Liquid Polyester Resin Series

型号 Model	粘度 Viscosity (mpa.s/25°C)	固含量 Solid Content(%)	羟基含量 Hydroxyl Value Equivalent (%)	羟基当量 Hydroxyl Equivalent(g/mol)	类型 Type	特征, 用途 Features and Applications
F1190	1000-2000	90 ± 1 (xylene)	3.1-3.4	500-550	线性聚酯多元醇 Linearity Polyester Polyalcohol	合成弹性预聚体 Synthesizing flexible prepolymer
F1700	1000-2000	≥98	4.25-4.86	350-400	线性聚酯多元醇 Linearity Polyester Polyalcohol	柔性UV树脂前驱体, 合成弹性预聚体 Precursor of flexible UV resin, used for synthesizing flexible prepolymer



# 天冬树脂应用领域 Polyaspartic Resin Application



## 风力发电设备、叶片前沿保护

Wind power equipment; Windmill blade leading edge protective.

- 叶片涂料 Blade coating
- 超强抗紫外线 Strong UV resistance
- 较好的抗风沙磨损 Excellent sand and wind abrasion resistance
- 具备较好的硬度和柔韧性 High hardness and good flexibility
- 塔筒防腐涂料 Wind mill anti-corrosion coating
- 较好的耐盐雾性 Excellent salt spray resistance
- 较好的保色性 Excellent color retention



## 汽车、重型机械、重卡、集装箱涂料

Car, Heavy duty equipment, Heavy truck, Container Coating

- 超高固份或无溶剂 (施工固含达85%-98%)
- Super-high solid content or solvent free(solid content reach 85%-98% during application)
- DTM涂装 DTM coating
- 免烘烤, 节约能源 Free drying-out, energy saving



## 汽车修补漆、零部件

Automotive Refinish, Car Parts

- 快速干燥, 降低VOC含量 Quick dry, decrease VOC release
- 极好的丰满度、光泽度 Excellent fullness, gloss
- 保色性佳 Good color retention



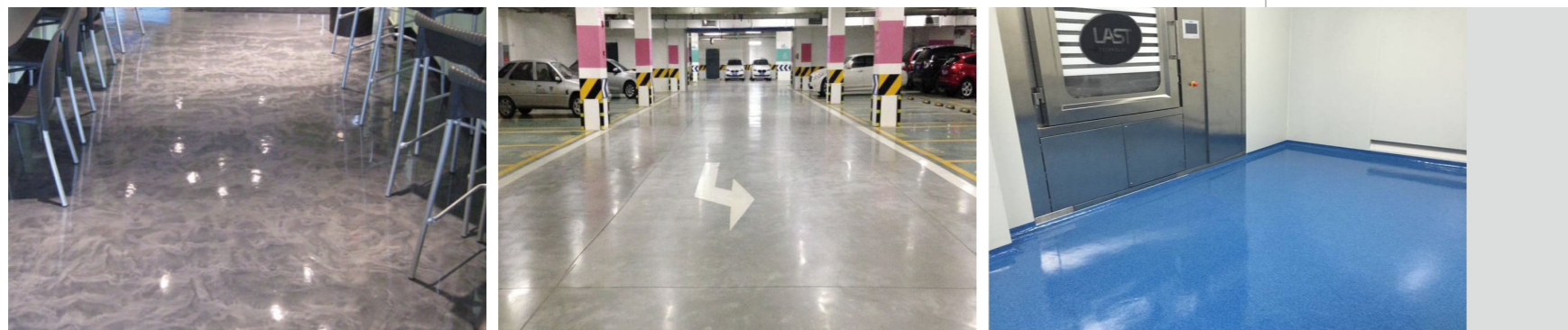
## 防护面漆

Protective Top-coat

- 超强抗紫外线 Strong UV resistance
- 具有较高的拉伸强度和伸长率 High tensile strength and elongation
- 高耐磨性 Strong anti-abrasion property



# 天冬树脂应用领域 Polyaspartic Resin Application



### 地坪涂料

Floor coating

抗紫外线, 保色性好 Good UV resistance and color retention  
可做弹性地坪 Elastic floor coating  
高耐磨性 Strong anti-abrasion property



### 手刷聚脲防水涂料

Hand Brush Polyurea Waterproof Coating

超高固份或无溶剂 Super-high solid content or solvent free  
具有较好的拉伸强度(大于15MPa)和伸长率(大于350%)  
Good tensile strength(>15MPa)and elongation(> 350%)  
施工方便 Convenient construction



### 管道防腐涂料

Tube Anti-corrosion Coating

无溶剂施工 Non-solvent construction  
快速固化 Fast curing  
超强抗紫外线 Strong UV resistance  
较好耐化学品性 Good chemical resistance



### 灌封材料、水晶胶

Joint Mixture, Crystal glue

具有很好的伸长性 Excellent elongation  
耐疲劳性 Fatigue resistance  
超强抗紫外线 Strong UV resistance

### 美缝剂

Sealants

不黄变 Never yellowing  
快速固化 Fast curing  
硬度高、韧性好  
High hardness, good flexibility



飞扬天冬聚脲树脂及技术 **全球应用情况**

The global application of Polyaspartic Ester Resin

