



**PFLUON** CERAMIC **ULTRA**



# CERAMIC ULTRA

是鹏孚隆陶瓷涂层的**升级产品**，具有长久的高温不粘性，适用于多种领域。

**CERAMIC ULTRA** is an upgraded product of PFLUON's ceramic coating, with long-term and high-temperature non-stick adhesion, suitable for various fields.

**C9662/5001 C9662/6001**

## 易清洁，省时省力

Easy to clean, time-saving and labor-saving

## 环保材料，健康安心

Eco-friendly materials, healthy and reassuring

不添加PFOA

Do not add PFOA

## 耐温耐磨，5倍不粘性能提升

Temperature resistance and abrasion resistance, 5 times improved on non-stick performance

## 施工工艺 Application process

### 基材前处理 Requirement on pre-treatment

1.首先高温除油，再1%~3%氢氧化钠碱液（60℃）清洗6分钟以上，水洗干净烘干；

Firstly, degreasing at high-temperature, then wash with 1%~3% NaOH solution (60℃) for more than 6 minutes, dry it after water rinsing;

2.然后80#~120#喷砂，使基材粗糙度 $Ra2.0\mu\sim3.0\mu$ ，注意喷砂均匀到位；

Blast with 80#~120# sand to make the surface roughness reach  $2.0\mu\sim3.0\mu$ , pay attention to sandblast evenly;

3.再然后1%~3%氢氧化钠碱液（60℃）清洗6分钟以上，水洗干净；

Wash with 1%~3% NaOH solution(60℃) for more than 6 minutes, rinse with water;

4.最后1%~3%盐酸溶液（60℃）清洗6分钟以上，水洗干净烘干。

Wash with 1%~3% hydrochloric acid solution (60℃) for more than 6 minutes, rinse with water and dry.



施工工艺 Application process

涂料的预备  
Preparation of  
the coating

- 1.涂料熟化前液体温度最佳在20℃（参考以下涂料的保存）；  
Before mixing (maturing), the best condition of coating is at the temperature of 20℃(refer to the storage in the following);
- 2.A组分熟化前充分滚动或搅拌，滚动速度100rpm~150rpm，时间30min以上，使其底部无沉降物为止；  
Before using, fully stir or roll component A at the speed of 100rpm~150rpm for more than 30min until there is no precipitation;
- 3.在A组分中加入B组分，用手摇动5~10秒，感觉发热后再在滚桶机上滚动熟化，滚动速度为90rpm~120rpm，混合熟化环境温度最佳在20℃，熟化时间8~12小时，在使用前再加入C组分，滚动均匀；  
Add component B to A, roll with hands for 5~10 seconds till feel the bottle is warm, than roll the coating with rolling machine at the speed of 90rpm~120 rpm. 20℃ is the best mixing temperature. Mix rolling for 8~12 hours. Add component C and roll evenly before using;
- 4.混合过程中会有热量产生，所以要经常开口释放气体，避免胀瓶，开口时小心气体或液体喷出；  
Deflate the air to avoid pressure since there is heat generated during the mixing process. Watch out the gas or liquid may get sprayed when open it;
- 5.涂料混合完后请在保质期内用完（参阅以下储存和有效期），避免涂料过期，建议在24小时内用完，所以在使用前要做好生产计划和计算使用量再混合熟化。  
Use the coating within its warranty (refer to the storage of coating). To prevent the coating from expiring, we recommend using it within 24 hours and calculating the needed amount before mixing the components. So it is better to calculate the needed quantity according to the production plan before maturing.

涂料的施工方法  
Application

- 1.喷涂环境应相对干燥，通风，无尘，建议使用陶瓷涂料专用喷枪、压力罐、烧结炉；  
The spraying environment should be dry, well-ventilated, and without dirt, recommended using dedicated spray gun, elevated tank and curing oven for ceramic non-stick coating;
- 2.空压机使用前要进行除油、除水、并安装油水分离器；  
The air compressor should be degreased, dewatered and equipped with water oil separator before using;
- 3.熟化好的涂料使用前90 rpm滚动，确保涂料均匀无沉淀，双层涂料底油用300~400目滤网过滤，面油用100目滤网过滤，涂料直接喷涂，无需稀释；  
Rolling the coating at 90 rpm before using to ensure the coating is well-distributed. For two-layers, filtrate base coat with 300 mesh ~ 400 mesh screen, top coat with 100 mesh screen;
- 4.喷涂前调整好喷枪的雾化和出油量，喷涂工件要保证清洁平整；  
Adjust atomization and oil pump capacity of the spraying gun; make sure the unit is clean and level;
- 5.基材在50℃~80℃预热后再喷涂底油(根据实际情况调整预热温度)，然后再直接喷涂面油（即湿喷湿的方式喷涂面油），喷涂后工件在隧道炉中缓慢升温到280℃，确保工件在280℃~300℃保温10min，控制干膜膜厚38μm±7μm（其中底油30±5μm，面油8±2μm），建议底油与面油用量比为3:1-4:1；  
Preheat the substrate at 50℃~80℃ before spraying primer coat (Adjust the preheating temperature according to actual situation) .Then apply topcoat directly (wet on wet), increase the temperature to 280℃ gradually, keep for 10min at 280℃ ~300℃. Keep the dry film thickness at the range of 38±7μm （primer is 30μm±5μm, top is 8μm±2μm）. Recommended quantity ratio of primer coat and finish coat is 3:1-4:1;



施工工艺 Application process

涂料的施工方法 Application	6.喷涂时，压力罐搅拌不要停止，底油喷枪口径1.0mm ~ 1.3mm，面油喷枪口径1.3mm~1.5mm. 压力3.5bar。 In spraying process, keep stirring inside of the elevated tank, the size of spraying nozzle should be between 1.0mm ~ 1.3mm, nozzle size of spraying gun for topcoat should be 1.3mm~1.5mm,the pressure is about 3.5bar.
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技术数据 Technical Data

检测项目 Test items	检测条件 Test conditions	指标 Index	检测方法 Test methods
外观 Appearance	目视 Visual	平整、光滑 Flat and smooth	Q/PFL 001-2022
颜色 Color	涂层表面颜色 Color of the film surface	黑色闪光 Black flash	Q/PFL 003-2022
附着力 Adhesion	2mm×2mm	1 级 Grade one	HG/T 4563-2013
光泽，° Gloss，°	60°光泽计 60° Gloss meter	≥45	GB/T 9754-2007
膜厚，μm Thickness, μm	测厚仪 Thickness gauge	38±7	GB/T 13452.2-2008
硬度 Hardness	中华铅笔 ZHONGHUA pencil	≥6H	GB/T 6739-2006
牛奶测试 Milk test	220℃煮牛奶 Boling milk at 220℃	≥35 次(cycles)	PFL-CTS-01
耐磨性 Abrasion resistance	30N/ 21cm²	≥8000 次(cycles)	Q/PFL 003-2022

技术数据 Technical Data

检测项目 Test items	检测条件 Test conditions	指标 Index	检测方法 Test methods
耐高温不粘性 High temperature resistant and non-sticky	300℃烤箱恒温 1 小时, 160±10℃煎鸡蛋/循环 300 °C Oven constant temperature for 1 hour, 160±10 °C fried eggs/cycle	60个循环 60 cycles	/
耐盐水不粘性 Saline resistant non-sticky	5%NaCl（纯净水配置）保持沸腾 2h, 160±10℃煎鸡蛋/循环 5% NaCl (in pure water configuration) kept boiling for 2h, 160±10 °C fried eggs/cycle	30个小时 30 hours	/
耐纯水不粘性 Boiling pure water resistant non-sticky	纯净水保持沸腾 2h, 160±10℃煎鸡蛋/循环 Pure water kept boiling for 2h, 160±10 °C fried eggs/cycle	50个循环 50 cycles	/

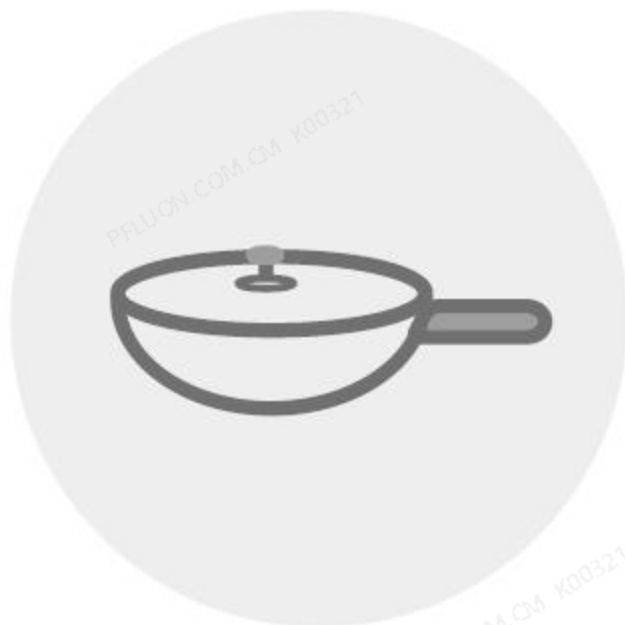


适用领域 Applicable fields

低温固化，水性环保；高硬度，高耐磨的超级不粘陶瓷涂料，专用于高端不粘炊具市场。  
Low curing temperature, water based (No PTFE、No PFAS);  
High hardness and abrasion resistance with superior non-stick property, specially used for high-end cookware market.



煎锅  
Fry pan



炒锅  
Wok

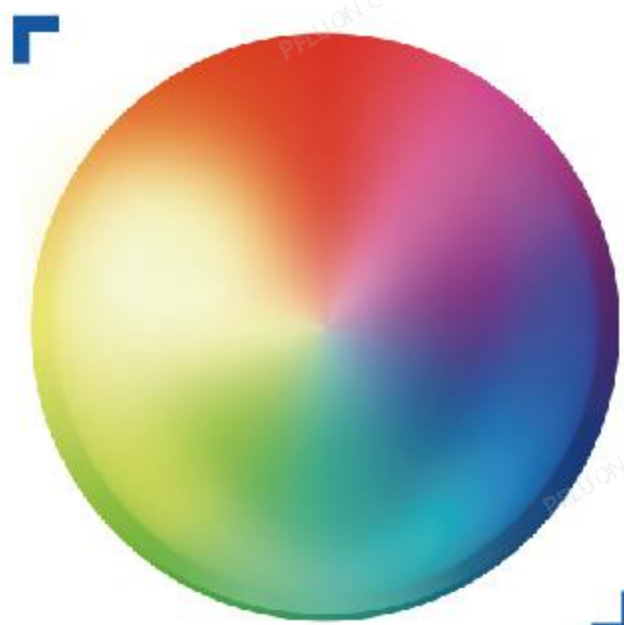


汤锅  
Soup Pot



烤盘  
Bakeware

我们的颜色 OPTIMAL COLLECTION



色彩丰富 COLORFUL

您可以从我们的小程序中任意挑选心仪的颜色。  
You can choose your favorite color from our applet.



扫一扫打开微信小程序  
Scan QR Code  
立刻开始您的定制  
Start Your Optimal Collection

PFLUON Optimal Solution Service  
鹏孚隆 提供不粘涂层卓越解决方案