

## U Series

### Leaded Onglaze Ceramic Enamel

#### Markets and industries

Enamels for the decoration of glazed surface of calcined ceramic wares such as earthen ware, porcelain, bone china, stone ware, tiles and etc.

COLOR	PART NUMBER	COLOR	PART NUMBER
PINK	U 10101**	LIGHT BROWN	U 60101
RED	U 10201*	BROWN	U 60102
DARK RED	U 10202*	BLACK	U 70101
IRON RED	U 10203	GRAY	U 70201
PURPLISH RED	U 10204*	GOLD	U GOLD
LIGHT YELLOW	U 20101	SILVER	U SILVER
YELLOW	U 20102	FLUX	U 001
CADMIUM YELLOW	U 20103*	COVER COAT	U 002
DARK YELLOW	U 20104	<b>4 COLOR</b>	
ORANGE	U 20201*	MANGENTA	U 10102**
WHITE	U 30101	MANGENTA	U 10103**
WHITE	U 30102	MANGENTA	U 10104**
BLUE GREEN	U 40101	VIOLET	U 10401**
LIGHT GREEN	U 40201	YELLOW	U 20404
GREEN	U 40202	CYAN	U 50104
DARK GREEN	U 40203	BLACK	U 70104
COBALT BLUE	U 50101		
BLUE	U 50201		
DARK BLUE	U 50202		
CYAN	U 50301		

\* cadmium containing colors

\*\* gold containing colors

#### Chemical composition

Enamels of U series contain lead. And some colors like red, yellow and orange have to use cadmium pigments to satisfy the requirements by customers.

#### Limitation of Warranty and Liability

We believe that the information shared in this document is accurate at the time of its publication. It is not a product specification, either in whole or in part. Users are responsible for determination of the suitability of this product and for testing in specific applications. Please test first before use. Nothing in this document shall be construed as a license for use that infringes upon any property rights of any third party. Please refer to the Safety Data Sheet (SDS) for safe use, handling and disposal information.

**Firing conditions**

Firing from room temperature to 750~800°C in a cycle of 45 min to 1.5 hour, with a soaking period of approx. 10 min.

**Chemical resistance**

Lead and Cadmium release : Immersion in 4% Acetic Acid solution at  $22 \pm 2^\circ\text{C}$  for 24 hours.

Range: PbO < 0.8 mg /dm<sup>2</sup>, CdO < 0.07 mg/dm<sup>2</sup> .

**Dishwasher resistance**

Detergent solution 1.5 g/L tested at 61°C. Result  $\geq 100$  cycles.

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## UX Series

### Unleaded Onglaze Ceramic Enamel

#### Markets and industries

Enamels for the decoration of glazed surface of calcined ceramic wares such as earthen ware, porcelain, bone china, stone ware, tiles and etc.

COLOR	PART NUMBER	COLOR	PART NUMBER
PINK	UX 10101	LIGHT BROWN	UX 60101
RED	UX 10201*	BROWN	UX 60102
DARK RED	UX 10202*	BLACK	UX 70101
IRON RED	UX 10203	GRAY	UX 70201
PURPLISH RED	UX 10204*	GOLD	UX GOLD
ROSE RED	UX 10301	SILVER	UX SILVER
YELLOW	UX 20101	FLUX	UX 001
DARK YELLOW	UX 20102	COVER COAT	UX 002
CADMIUM YELLOW	UX 20103*	<b>4 COLOR LEAD FREE &amp; CADMIUM FREE</b>	
ORANGE	UX 20201*	MANGENTA	UX 10104**
WHITE	UX 30101	YELLOW	UX 20104
BOTTOM WHITE	UX 30102	CYAN	UX 50104
BLUE GREEN	UX 40101	BLACK	UX 70104
LIGHT GREEN	UX 40201		
GREEN	UX 40202		
GRASS GREEN	UX 40203		
DARK GREEN	UX 40204		
COBALT BLUE	UX 50101		
BLUE	UX 50201		
DARK BLUE	UX 50202		

\* cadmium containing colors

\*\* gold containing colors

#### Chemical composition

Enamels of UX series do not contain heavy metals like Pb, Cd, Hg and Cr<sup>6+</sup> except some colors like red, yellow and orange which have to use cadmium pigments to satisfy the requirements by customers.

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**Firing conditions**

Firing from room temperature to 750~800°C in a cycle of 45 min to 1.5 hour, with a soaking period of approx.10 min.

**Chemical resistance**

Lead and Cadmium release : Immersion in 4% Acetic Acid solution at  $22 \pm 2^\circ\text{C}$  for 24 hours.

Range: PbO < 0.8 mg /dm<sup>2</sup>, CdO < 0.07 mg/dm<sup>2</sup>.

**Dishwasher resistance**

Detergent solution 1.5 g/L tested at 61°C. Result  $\geq 100$  cycles.

**Limitation of Warranty and Liability**

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## U 系列

## 含铅釉上彩陶瓷釉料

## 市场行业

用于装饰陶瓷釉面的釉料，类似陶瓷、瓷器、骨瓷、石器、瓷砖等。

颜色	编号	颜色	编号
粉色	U 10101	浅棕	U 60101
红色	U 10201*	棕色	U 60102
深红	U 10202*	黑色	U 70101
铁红	U 10203	灰色	U 70201
紫红	U 10204*	金色	U GOLD
浅黄	U 20101	银色	U SILVER
黄色	U 20102	调色剂	U 001
镉黄	U 20103*	罩层	U 002
深黄	U 20104	<b>4 色</b>	
桔色	U 20201*	金红	U 10102**
白色	U 30101	金红	U 10103**
白色	U 30102	金红	U 10104**
蓝绿	U 40101	紫兰	U 10401**
浅绿	U 40201	黄色	U 20404
绿色	U 40202	青色	U 50104
深绿	U 40203	黑色	U 70104
钴蓝	U 50101		
蓝色	U 50201		
深蓝	U 50202		
青色	U 50301		

\*颜色中含镉

\*\*颜色中含黄金

## 化学成分

U 系列釉料含铅元素。为满足客户需求，某些颜色像红色、黄色和桔色使用含镉的颜料。

## 保证和责任限制

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**焙烧工艺**

经过 45 分钟到 1.5 小时从室温升温到 750~800°C 后，保温 10 分钟左右。

**耐化学性**

铅镉溶出：在 4% 醋酸溶液中， $22 \pm 2$  °C，浸泡 24 小时。

范围：PbO < 0.8 mg /dm<sup>2</sup>, CdO < 0.07 mg/dm<sup>2</sup>。

**洗碗机性能**

1.5 克/升的洗涤剂在 61 °C 下，可反复清洗  $\geq 100$  次。

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## UX 系列

## 无铅釉上彩陶瓷釉料

## 市场行业

用于装饰陶瓷釉面的釉料，类似陶瓷、瓷器、骨瓷、石器、瓷砖等。

颜色	编号	颜色	编号
粉色	UX 10101	浅棕	UX 60101
红色	UX 10201*	棕色	UX 60102
深红	UX 10202*	黑色	UX 70101
铁红	UX 10203	灰色	UX 70201
紫红	UX 10204*	金色	UX GOLD
玫红	UX 10301	银色	UX SILVER
黄色	UX 20101	助剂	UX 001
深黄	UX 20102	罩层	UX 002
镉黄	UX 20103*	4 色 无铅、镉	
桔色	UX 20201*	金红	UX 10104**
白色	UX 30101	黄色	UX 20104
底白	UX 30102	青色	UX 50104
蓝绿	UX 40101	黑色	UX 70104
浅绿	UX 40201		
绿色	UX 40202		
深绿	UX 40203		
钴蓝	UX 50101		
蓝色	UX 50201		
深蓝	UX 50202		

\*颜色中含镉

\*\*颜色中含黄金

## 化学成分

UX 系列釉料不含铅、镉、汞、+6 价铬等重金属，除了为满足客户需求而含镉的一些颜色，像红色、黄色和桔色。

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铅镉释放：在 4% 醋酸溶液中， $22 \pm 2$  °C，浸泡 24 小时。

范围：PbO < 0.8 mg /dm<sup>2</sup>，CdO < 0.07 mg/dm<sup>2</sup>。

**洗碗机性能**

1.5 克/升的洗涤剂在 61 °C 下，可反复清洗  $\geq 100$  次。

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