



Onglaze Colour: Technical Information

Our range of intermixable low metal release onglaze colours is suitable for indirect and direct applications using both conventional and fast firing cycles.

General Notes

Intermixability

Our range of onglaze colours is made from a compatible glass system and is, therefore, fully intermixable within the parameters detailed below. In addition, Mixing Flux 1114 and Mixing White 1097 can be used to obtain both an extensive colour palette and a wide range of pastel shades.

Gold Colours

Please note that 1386, 1387, 1388, 1389 are gold colours included in the range and are fully intermixable within the normal limitations.

Cadmium Colours

Within the standard range we have four cadmium colours 1103, 1104, 1105 and 1121 which are fully intermixable with each other. However, intermixing cadmium and non-cadmium colours is not recommended without extensive end user trials.

Complementary Colours

We have produced four complementary colours to the standard range. 1100, 1120, 1113 and 1108 are intermixable with the standard range. However, these should always be used in the majority proportion. Again end user trials are recommended.

Note on Firing

For conventional firing cycles of 4 hours or above, the following temperatures are recommended

Earthenware: 700°C - 780°C

Bone China: 740°C - 800°C

Porcelain: 760°C - 860°C

Vitreous China: 740°C - 800°C

Faster firing is achieved at higher temperatures with the optimum firing conditions depending upon body and glaze criteria.























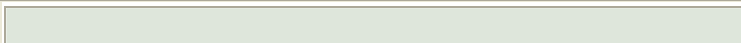
Chemical Durability

Dishwasher durability is tested by immersion in a 0.5% Calgonite solution at 78°C which is an accelerated alternative to 500 consecutive dishwasher cycles. The results show no appreciable deterioration of colour or gloss after 36 hours exposure.

Metal release is tested by immersion in 4% acetic acid at $22 \pm 2^\circ\text{C}$ for 24 hours in accordance with DIN 51031 1986. Results are typically less than 0.3 mg Pb/dm² and 0.03 mg Cd/dm².

Dishwasher durability and metal release generally improve as firing temperatures are increased within the ranges indicated.



Low-Lead On-Glaze Enamels 700 ⁰ C to 860 ⁰ C	
1098	
1124	
1106	
1145	
1155	
1108	
1103	
1104	
1105	
1121	
1120	
1100	
1099	
1167	
1154	
1122	
1198	
1385	
1386	
1377	
1388	
1389	
1093	

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