

Technical Information

DF39

Performance Pigments and Colors

6000 Series - High Temperature Fast Firing Colours for Tiles

In this Technical Information Ferro presents the 6000 Series. These colours have been especially developed for high temperature fast firing for tiles. They are suitable for third firing, but may also be applied onto the unfired glaze and then be fired in first or second firing. They can also be applied under vetrosa.

The colours of the 6000 Series are suitable for both direct and indirect screen printing.

Screen Printing

The colours of the 6000 Series are characterized by being finely ground and having a narrow grain size distribution. This allows easy pasting.

Good printing results are obtained with polyester with 77-120 threads/cm (220-300 mesh/inch).

For all standard methods, Ferro offers suitable media and covercoats. Further detailed technical information can be found in our **CerDePrint Media Guide**.

Storage

The colours should be stored in a dry place. Opened containers should be closed carefully. To ensure that the colours have not absorbed any humidity, we recommend drying the colour powder at approx. 130 °C prior to mixing.

Miscibility

All colours are intermixable. In any case, we recommend to test mixtures under the specific processing conditions prior to use.

Firing Conditions

The firing temperature ranges from 900 to 1150 °C.

Resistance

The alkali and acid resistance of fired colour layers is influenced by the thickness of the layer, the firing conditions, and the glaze.

The colours of the 6000 Series show in laboratory tests and under industrial conditions a very good mechanical resistance. In addition to this, they also proved to be very resistant to attacks from common detergents for bathrooms and tiles.

Heavy Metal Content

The colours of the **6000 Series** contain lead, some also contain cadmium as an inclusion pigment.

Our safety data sheets, which are available for every product, provide you with useful advice for working with our products.

While every attempt has been made to reproduce colours exactly, the samples printed here may differ slightly from the finished ceramic products.

Fig. 1: The available colours of the 6000 Series



Table 1: The colours of the 6000 Series

Product No.	Colour Shade	Pantone® Code ¹
11 6014	Turquoise	2995 c
11 6048	Blue Green	316 c
11 6049	Green	328 c
12 6018	Cobalt Blue	072 c
13 6033	Yellow	Process Yellow c
14 6088	Black	Process Black c
15 6085	Grey	432 c
16 6028	Ochre	471 c
16 6029	Dark Brown	4695 c
17 6072	Rose	701 c
17 6074	Pink Red	492 c
17 6078	Red	173 c
18 6094	Violet	512 c / 520 c
19 6009	Mixing White	

¹ The above mentioned **Pantone®** code is only a guideline for the colour shade. **Pantone®** is a registered trade mark of Pantone Inc..

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